

PART 2: STANDARD DETAILS

TABLE OF CONTENTS

NAME	NUMBER
GENERAL DETAILS	
BANNER DETAIL	G-01
TEMPORARY CONSTRUCTION SITE SIGN BOARD (4'x4')	G-02
TEMPORARY H.U.D. CONSTRUCTION SITE SIGN BOARD (4'x4')	G-04
TEMPORARY CONSTRUCTION SITE SIGN BOARD (8'x4')	G-05
WSDOT STANDARD PLANS (INCLUDED BY REFERENCE ONLY)	
PULL BOX (CITY TELECOMMUNICATIONS PULL BOX)	J-90.10
SMALL CABLE VAULT (CITY TELECOMMUNICATIONS SPLICE VAULT)	J-90.21
TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) DETAILS For additional TESC details and figures see the City of Auburn SWMM	
TEMPORARY CONSTRUCTION ENTRANCE/EXIT	E-01
SILT CONTROL FENCE	E-02
CATCH BASIN INLET PROTECTION	E-03
ALTERNATE CATCH BASIN INLET PROTECTION	E-04
GRADING/EROSION DISCHARGE CONTROL STRUCTURE	E-05
TRAFFIC DETAILS	
TYPICAL PIPE TRENCH BACKFILL	T-01
EXISTING ROADWAY RESTORATION OF UTILITY TRENCHES	T-02
EXISTING ROADWAY RESTORATION OF UTILITY TRENCHES IN INTERSECTION	T-02A
TYPICAL BOLLARD INSTALLATION	T-03
DRIVEWAY WIDTHS AND LOCATION	T-04
ADJUSTMENT OF NEW AND EXISTING UTILITY STRUCTURES TO FINISH GRADE	T-05
STREET TREE IN LANDSCAPE STRIP	T-06
NEIGHBORHOOD DELIVERY AND COLLECTION BOX UNIT (N.D.C.B.U.) INSTALLATION	T-07
NEIGHBORHOOD DELIVERY & COLLECTION BOX UNIT (N.D.C.B.U.) SINGLE UNIT	T-08
NEIGHBORHOOD DELIVERY & COLLECTION BOX UNIT (N.D.C.B.U.) MULTIPLE UNITS	T-09
POURED IN PLACE MONUMENT TYPE 'B' MODIFIED	T-11
POURED IN PLACE MONUMENT TYPE 'B' MODIFIED (ASPHALT)	T-11A
DOUBLE CENTERLINE WITH RAISED PAVEMENT MARKERS	T-12
CEMENT CONCRETE SIDEWALK WITH LANDSCAPE STRIP	T-13
PERVIOUS CEMENT CONCRETE SIDEWALK	T-14
CEMENT CONCRETE SIDEWALK WITHOUT LANDSCAPE STRIP	T-15
BICYCLE LANE MARKINGS	T-17
LUMINAIRE AND CONDUIT LAYOUT DETAIL	T-18
LUMINAIRE POLE	T-19
UNIFORM LUMINAIRE WIRING DETAIL	T-20
POWER SERVICE CABINET DETAIL	T-21
TRAFFIC SIGNAL CONTROLLER & FOUNDATION DETAIL	T-22
TELECOMMUNICATION AND LUMINAIRE ELECTRICAL TRENCH	T-23
TYPICAL SIGN POST INSTALLATION	T-24

NAME	NUMBER
MAST ARM MOUNTED, STREET NAME SIGN DETAIL	T-25
POST MOUNTED, STREET NAME SIGN DETAIL	T-26
REPAIR OF EXISTING CEMENT CONCRETE PANEL IN ROADWAY	T-27
DOWNTOWN PEDESTRIAN POLE MOUNT LIGHTING STANDARD	T-28,28A,28B
LOCAL RESIDENTIAL ORNAMENTAL STREET LIGHTING STANDARD	T-29
TYPICAL PLAN FOR TREE GRATE	T-30
PRIVATE ACCESS ROAD / SHARED DRIVEWAY	T-31
PRECAST CONCRETE DUAL FACED SLOPED MOUNTABLE CURB RETROFIT	T-32
STREET TREE UNDERGROUND STABILIZATION	T-33
STANDARD DRIVEWAY - OFFSET APRON	T-34
ALTERNATE DRIVEWAY - INLINE (DROP) APRON	T-35
STREET LIGHTING LAMP SCHEDULE	T-37
DOWNTOWN DECORATIVE TYPE III COMBO LIGHTING & MAST ARM SIGNAL	T-38
DOWNTOWN DECORATIVE LIGHT POLE	T-39
"NO PARKING" SIGN	T-40
CONCRETE TRAFFIC CURB & GUTTER TO HMA WEDGE CURB TRANSITION	T-41
SPEED CUSHION DETAIL	T-42
SPEED CUSHION PLAN	T-42A
DOWNTOWN PEDESTRIAN CROSSWALK	T-43
DOWNTOWN BRICK PAVER BAND	T-44
TYPICAL TRAFFIC BARRICADES	T-45
POURED IN PLACE MONUMENT TYPE A MODIFIED	T-46
CAST-IN-PLACE DUAL MOUNTABLE CEMENT CONCRETE TRAFFIC CURB	T-47
SENSITIVE AREA SIGN COMMERCIAL AQUATIC	T-48
WSDOT STANDARD PLANS (INCLUDED BY REFERENCE ONLY)	
RAISING BEAM GUARDRAIL DETAIL	C-1
BEAM GUARDRAIL ANCHOR TYPE 2	C-6a
CEMENT CONCRETE CURBS	F-10.12
PARALELL CURB RAMP	F-40.12
PERPENDICULAR CURB RAMP	F-40.15
SINGLE DIRECTION CURB RAMP	F-40.16
DETECTABLE WARNING SURFACE	F-45.10
CEMENT CONCRETE DRIVEWAY ENTRANCE TYPES 1, 2,3, & 4	F-80.10
LOCKING LID STANDARD JUNCTION BOX TYPES 1 & 2	J-40.10
TYPE 3 BARRICADE	K-80.20
LEFT TURN CHANNELIZATION REDUCED TAPERS	M-3.20
TWO-WAY LEFT TURN AND MEDIAN CHANNELIZATION	M-3.40
DOUBLE LEFT-TURN CHANNELIZATION	M-3.50
RIGHT TURN CHANNELIZATION	M-5.10
BICYCLE LANE SYMBOL LAYOUT	M-9.50
RAILROAD CROSSING LAYOUT	M-11.10
CROSSWALK LAYOUT	M-15.10
LONGITUDINAL MARKING PATTERNS	M-20.10

NAME	NUMBER
SYMBOL MARKINGS - TRAFFIC ARROWS FOR LOW-SPEED ROADWAYS	M-24.40
SANITARY SEWER AND STORM DRAIN DETAILS	
SIDE SEWER STUB	S-01
PRIVATE SANITARY SIDE SEWER CLEAN OUT	S-02
PUBLIC SIDE SEWER CLEANOUT (8" OR LARGER)	S-03
24" DIA. MANHOLE FRAME AND COVER	S-04
RETROFIT EXISTING MANHOLE WITH INSIDE DROP	S-05
EXTRA SHALLOW MANHOLE DETAIL	S-06
MANHOLE AT END OF SANITARY SEWER LINE	S-07
MANHOLE CHANNEL CONSTRUCTION	S-08
FLOW RESTRICTOR	S-09,9a
COVERED CURB OPENING INLET	S-10
WSDOT STANDARD PLANS (INCLUDED BY REFERENCE ONLY)	
CATCH BASIN TYPE 1	B-5.20
CATCH BASIN TYPE 2	B-10.20
MANHOLE TYPE 1	B-15.20
MANHOLE TYPE 2	B-15.40
COMBINATION INLET	B-25.20
CONCRETE INLET	B-25.60
CEMENT CONCRETE CURB AND GUTTER PAN	F-10.16
WATER DETAILS	
WATER MAIN BLOCKING	W-01
TYPICAL AIR AND VACUUM RELIEF VALVE DETAIL	W-02
2" PERMANENT BLOW OFF ASSEMBLY	W-03
TEMPORARY BLOW OFF DETAIL	W-04
WATER SAMPLING STATIONING DETAIL	W-05
3/4" TO 2" IRRIGATION FROM DOMESTIC SERVICE LINE (SINGLE FAMILY)	W-06
5 1/4" M.V.O. HYDRANT SETTING DETAIL	W-07
FIRE HYDRANT LOCATION IN CUT OR FILL W/ GUARD POSTS	W-08
2" FIRE SPRINKLER LINES WITH 3/4" TO 2" DOMESTIC SERVICE LINE	W-09
1" WATER SERVICE FOR 3/4" AND 1" METERS	W-13
1 1/2" & 2" WATER SERVICE	W-14
WATER METER LOCATION & MATERIAL SCHEDULE	W-15
3" OR LARGER WATER METER INSTALLATION	W-16,16a
VALVE WRENCH EXTENSION BOX	W-17
C.I. VALVE BOX TOP & VALVE BOX COVER	W-18
5" C.I. SOIL PIPE VALVE BOX EXTENSION & C.I. VALVE BOX BOTTOM	W-19
NON-SINGLE FAMILY SERVICE LINES	W-20
TEMP. COMBINATION HYDRANT METER/ REDUCED PRESSURE BACKFLOW ASSY.	W-21
REDUCED PRESSURE BACKFLOW ASSY. (OUTSIDE INSTALLATION)	W-22
REDUCED PRESSURE BACKFLOW ASSY. (INSIDE INSTALLATION)	W-23
DOUBLE CHECK VALVE ASSEMBLY (OUTSIDE INSTALLATION)	W-24
DOUBLE CHECK VALVE ASSEMBLY (INSIDE INSTALLATION)	W-25

FILED 01/07/2019 09:12 AM PUBLIC WORKS DEPARTMENT, AUBURN, WASHINGTON. PERMIT NO. 12/26/19

APPROVED BY CITY ENGINEER:

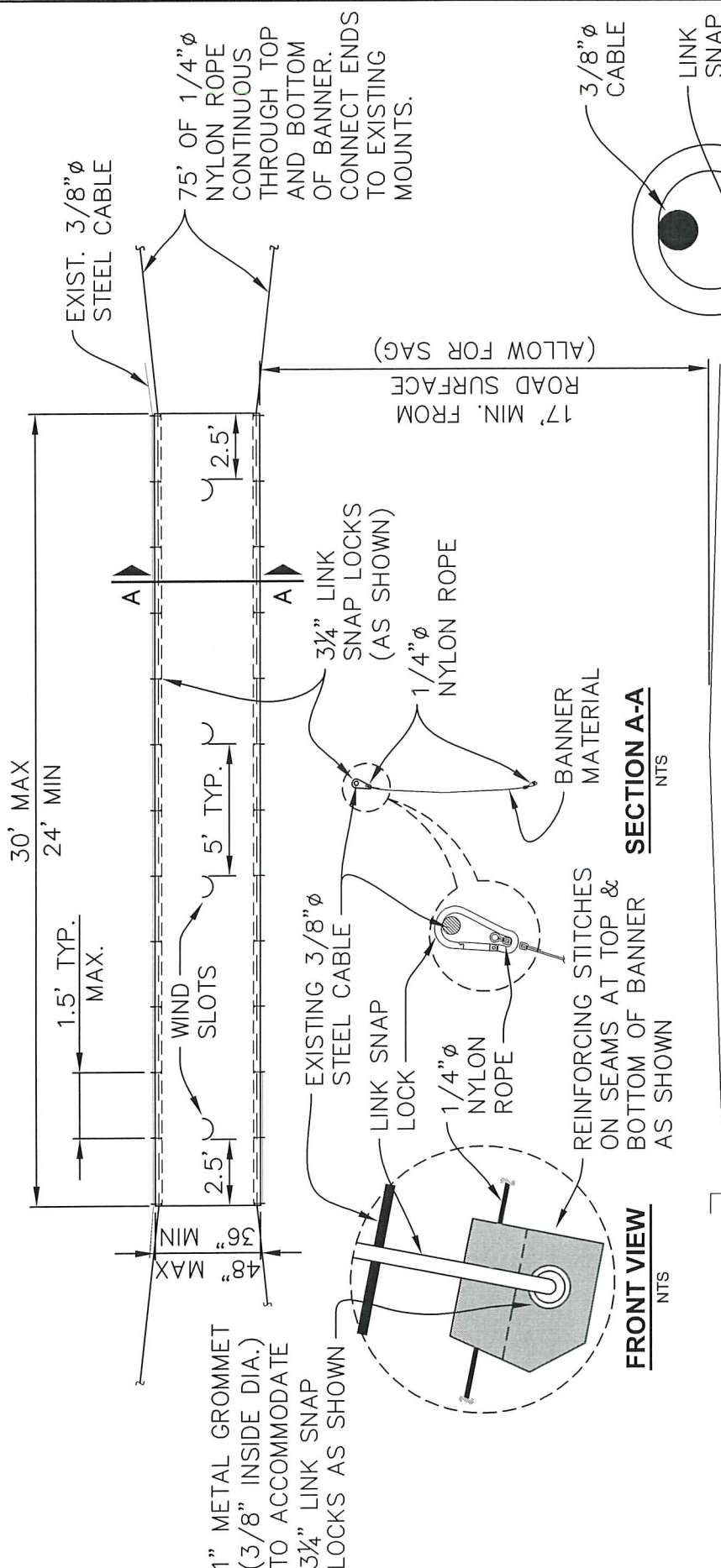
DATE:

AUBURN
WASHINGTON

BANNER
DETAIL

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: G-01.3

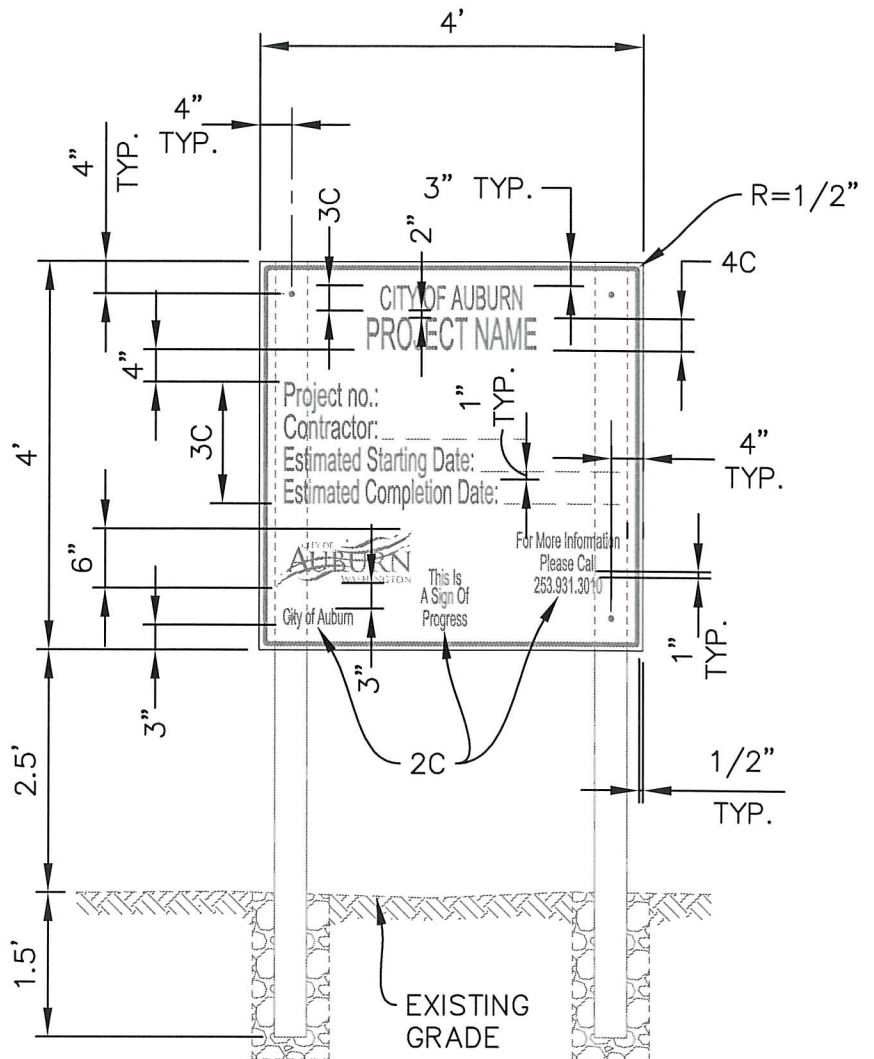


NOTES:

1. WIND SLOT SHALL BE 6" DIAMETER HALF CIRCLE, MINIMUM. THEY MAY BE LOCATED IN AREAS WHICH DO NOT DEDUCT FROM THE BANNER.
2. WIND SLOTS SHALL BE SPACED ONE SLOT PER 5 FT. OF BANNER LENGTH.
3. BANNER SHALL BE DURABLE TEARING RESISTANT MATERIAL, I.E., NYLON, VINYL, ETC.
4. BANNER SHALL BE CONNECTED TO EXISTING CABLE WITH DETACHABLE 3/4" LINK SNAP LOCKS AS SHOWN. OTHER METAL RING TYPES WILL NOT BE ACCEPTED. APPLICANT SHALL PROVIDE A MINIMUM OF 40 LINK SNAP LOCKS INSTALLED ON THE TOP AND BOTTOM OF BANNER AS SHOWN (20 ON EACH SIDE). NOT ALL LOCATIONS REQUIRE LINK SNAP LOCKS ON THE BOTTOM. APPLICANT TO VERIFY DURING BANNER APPLICATION SUBMITTAL.
5. REINFORCING STITCHES SHALL BE PROVIDED ON SEAMS AT TOP & BOTTOM OF BANNER.
6. BANNER SHALL BE CONSTRUCTED USING A SINGLE LAYER OF BANNER MATERIAL. DOUBLE SIDED BANNERS SHALL HAVE PRINT ON BOTH SIDES OF THE SINGLE LAYER MATERIAL.
7. BANNER CONSTRUCTION SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO BANNER BEING DEPLOYED AT THE PERMITTED LOCATION.

SIDE VIEW
NTS

1/2" BORDER



CONSTRUCTION NOTES:

- SIGN BOARD SHALL BE CONSTRUCTED FROM 4'x4'x3/4" EXTERIOR MARINE PLYWOOD.
- ALL LETTERS AND NUMERALS SHALL BE SERIES C.
- LETTERING SHALL BE BLACK ON WHITE BACKGROUND USING 3M SCOTCHLITE EC FILM SERIES 1700 OVER 3M DIAMOND GRADE VIP OR BETTER.
- SIGN AND POSTS SHALL BE PLANTED INTO AN UNYIELDING SOIL AND REINFORCED BY TAMPING GRAVEL OR SMALL ROCKS WHEN NECESSARY TO ASSURE RESISTANCE AGAINST STRONG WIND. BRACING MAY BE REQUIRED AT SOME LOCATIONS AS DIRECTED BY THE ENGINEER.
- SIGN BOARD SHALL BE FABRICATED AND MOUNTED ON 2 EACH 4"x4"x8' POSTS WITH THE FOLLOWING GALVANIZED FASTENERS AND SIZES AS INDICATED:
 - 4 EA. 1/4" DIA.x6"
 - 4 EA. 1/4" NUTS
 - 8 EA. 1/4" WASHERS

APPROVED BY CITY ENGINEER:

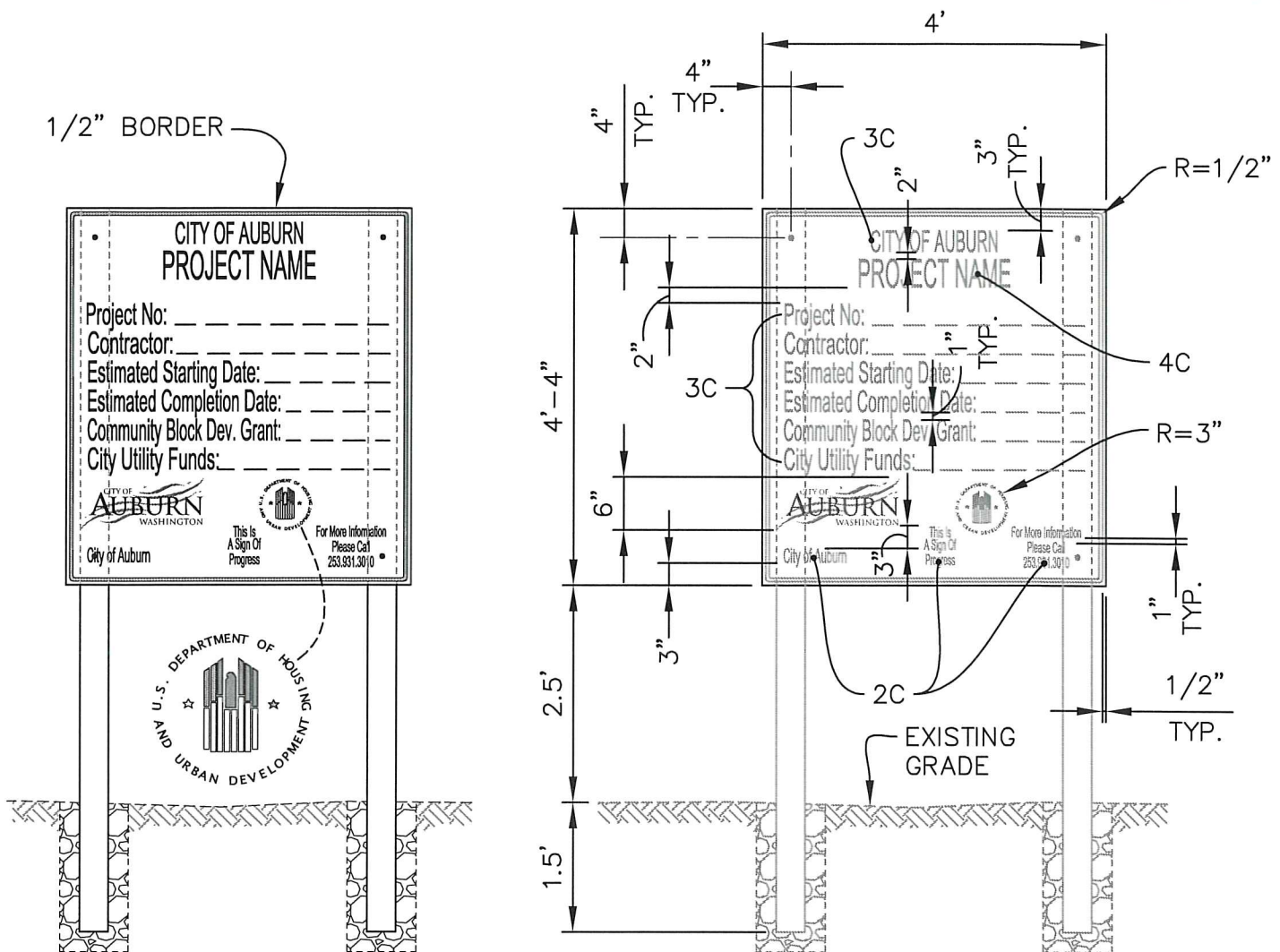
DATE:



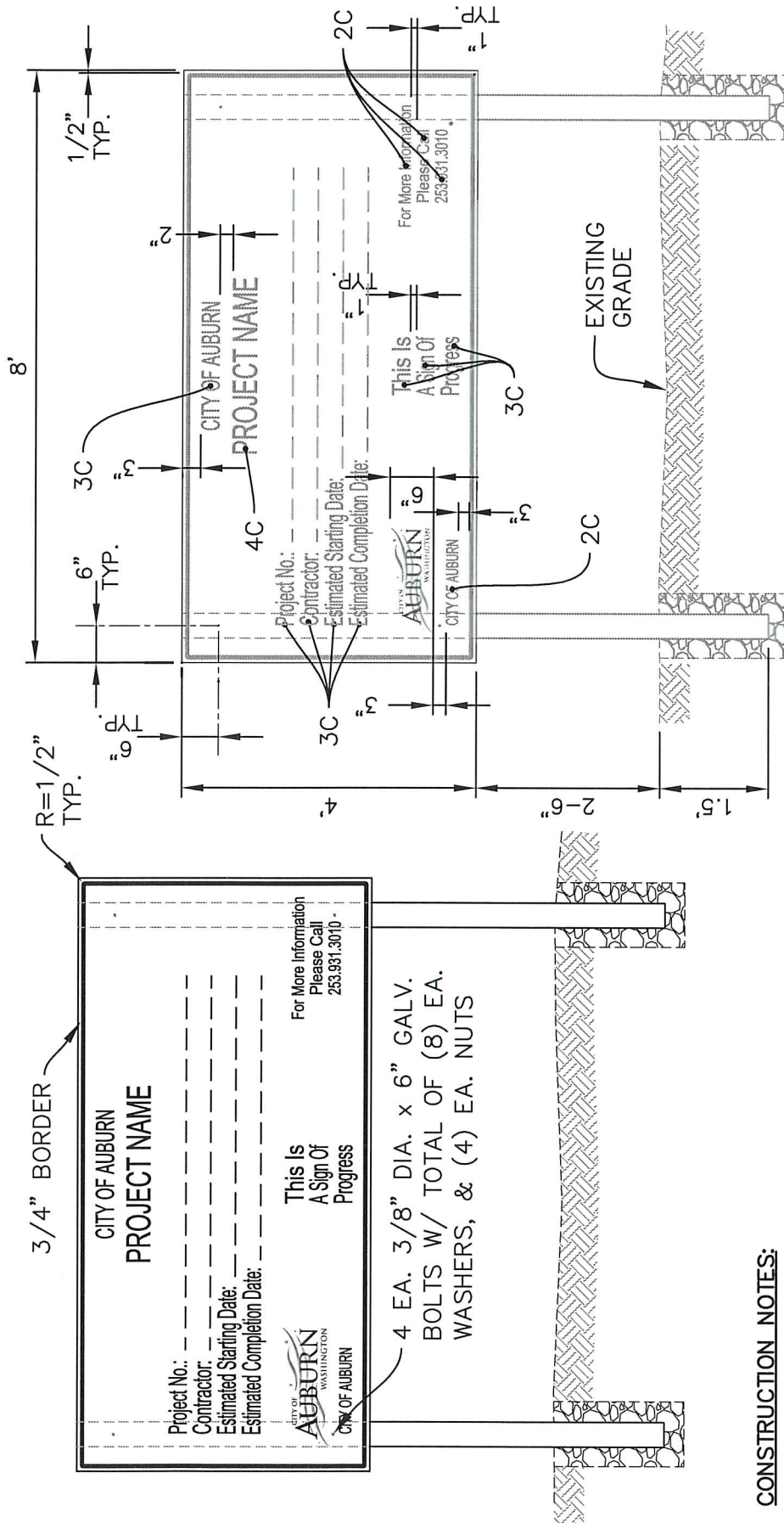
TEMPORARY CONSTRUCTION
SITE SIGN BOARD (4'x4')

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: G-02.1



COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.



CONSTRUCTION NOTES:

1. SIGN BOARD SHALL BE CONSTRUCTED FROM 4'x4'x3/4" EXTERIOR MARINE PLYWOOD.
2. ALL LETTERS AND NUMERALS SHALL BE SERIES C.
3. LETTERING SHALL BE BLACK ON WHITE BACKGROUND USING 3M SCOTCHLITE EC FILM SERIES 1700 OVER 3M DIAMOND GRADE VIP OR BETTER.
4. SIGN AND POSTS SHALL BE PLANTED INTO AN UNYIELDING SOIL AND REINFORCED BY TAMPING GRAVEL OR SMALL ROCKS WHEN NECESSARY TO ASSURE RESISTANCE AGAINST STRONG WIND. BRACING MAY BE REQUIRED AT SOME LOCATIONS AS DIRECTED BY THE ENGINEER.
5. SIGN BOARD SHALL BE FABRICATED AND MOUNTED ON 2 EACH 4"x4"x8' POSTS WITH THE FOLLOWING GALVANIZED FASTENERS AND SIZES AS INDICATED:
 - 4 EA. 3/8" DIA.x6"
 - 4 EA. 3/8" NUTS
 - 8 EA. 3/8" WASHERS

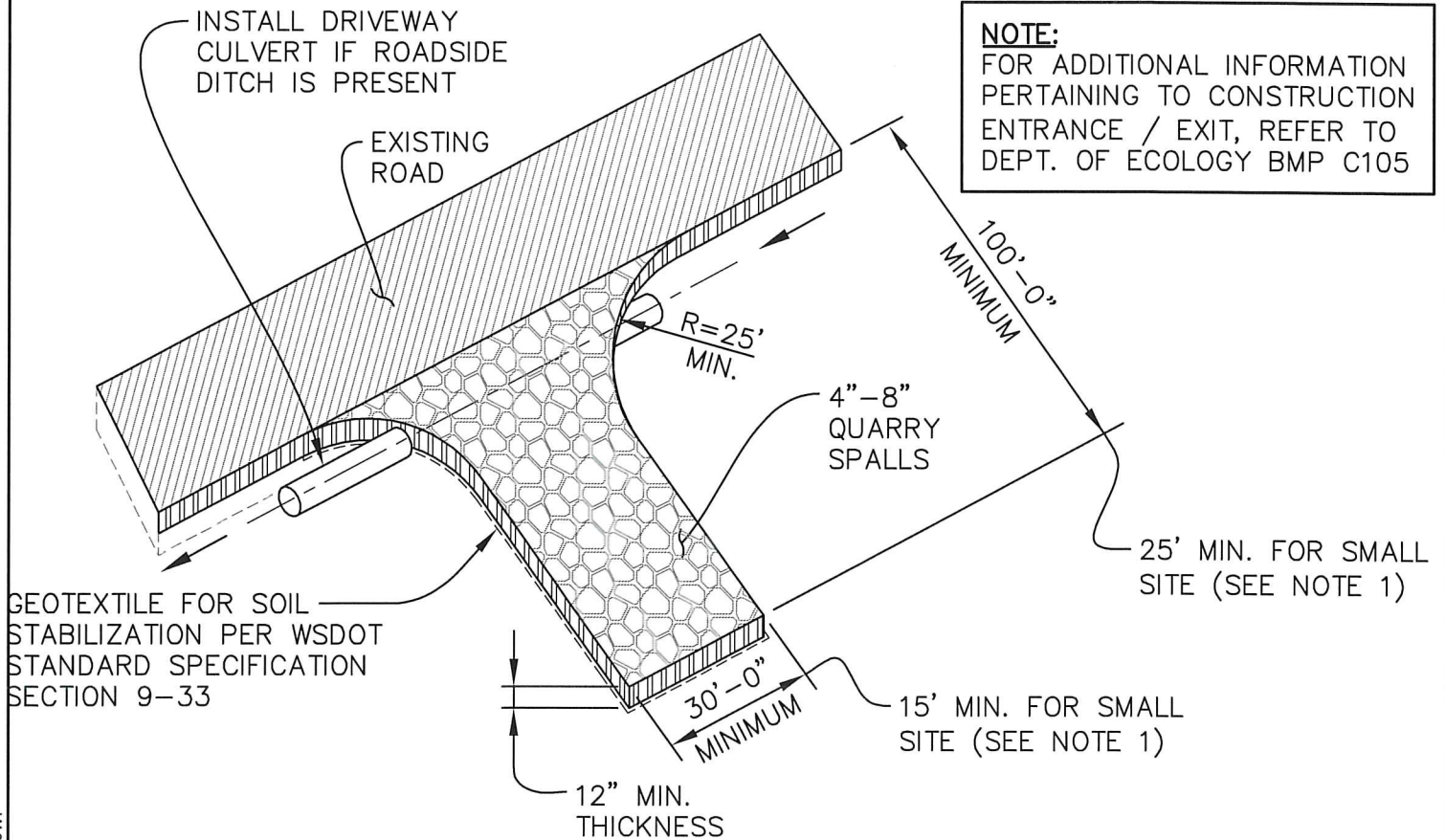
APPROVED BY CITY ENGINEER:

DATE:

8/5/2016



TEMPORARY CONSTRUCTION
SITE SIGN BOARD (8'x4')



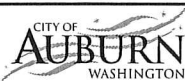
MAINTENANCE STANDARDS:

1. SMALL SITE IS DEFINED AS A SITE THAT ADDS OR REPLACES LESS THAN 5,000 SQUARE FEET OF IMPERVIOUS SURFACE & DISTURBS LESS THAN ONE ACRE.
2. QUARRY SPALLS PLUS WOVEN GEOTEXTILE FABRIC UNDER ROCK SHALL BE ADDED AS NEEDED TO KEEP THE ENTRANCE IN CONFORMANCE WITH THESE STANDARDS.
3. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE SHOVELING, PICKUP SWEEPING, & HAND SWEEPING, AN INCREASE IN THE ENTRANCE DIMENSIONS, OR THE INSTALLATION OF A SELF-CONTAINED WHEEL WASH STATION, (REFER TO DOE BMP C-106 FOR MORE INFORMATION).
4. ANY SEDIMENT THAT IS TRACKED ONTO STREET PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SHOVELING, PICKUP SWEEPING, & HAND SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ONSITE. PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE & THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREETS, A CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. SEDIMENT WOULD THEN BE WASHED INTO THE SUMP.
5. ANY ROCK SPALLS THAT ARE LOOSENEED FROM THE DRIVEWAY PAD & ONTO THE ROADWAY SHALL BE REMOVED IMMEDIATELY. VACTOR TRUCK MUST BE USED TO CLEAN CATCH BASIN IF IT BECOMES PLUGGED.
6. VEHICLES SHALL NOT ENTER OR EXIT THE SITE OTHER THAN THE CONSTRUCTION ENTRANCE(S).
7. REMOVE TEMPORARY CONSTRUCTION ENTRANCE/EXIT UPON COMPLETION OF THE ON-SITE WORK.

APPROVED BY CITY ENGINEER:

DATE:

8/5/2016

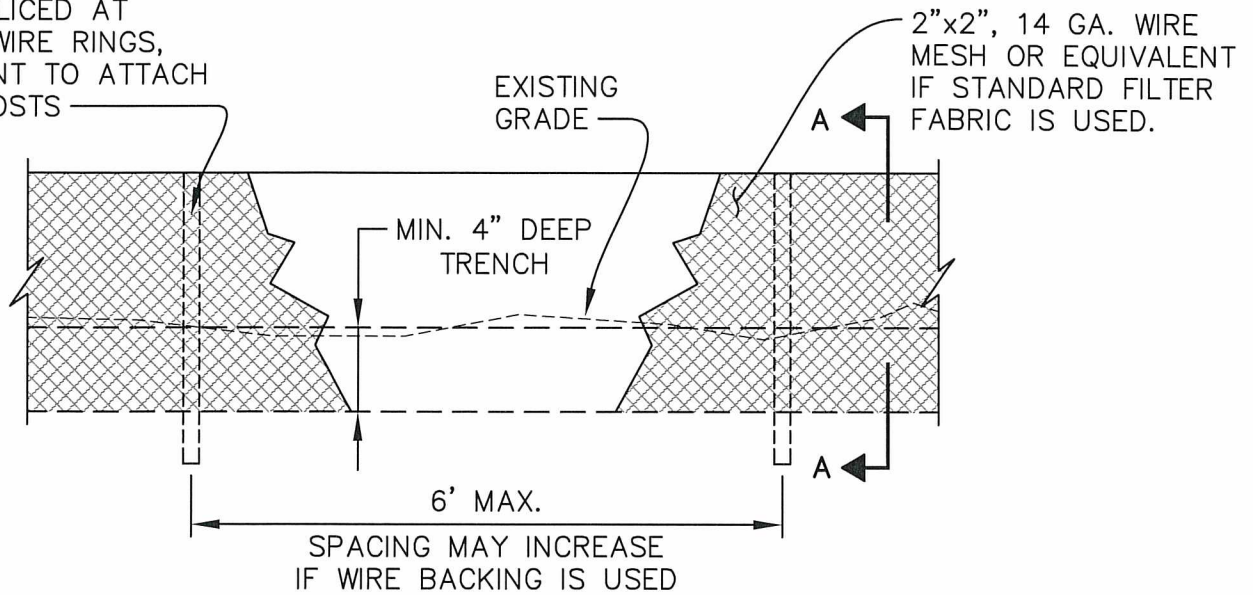


TEMPORARY CONSTRUCTION
ENTRANCE / EXIT

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: E-01.1

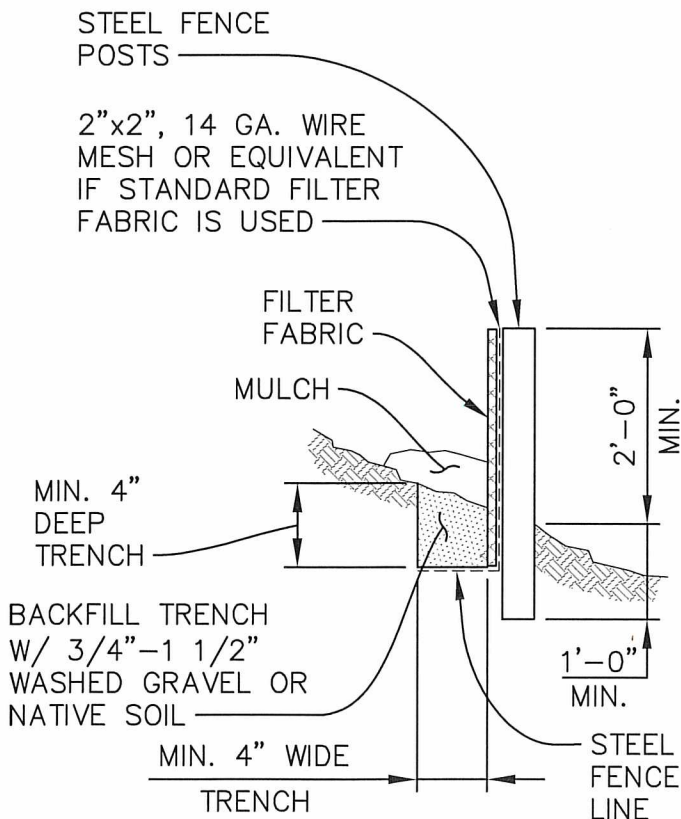
JOINTS IN FILTER FABRIC SHALL BE SPLICED AT POSTS. USE WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO POSTS



SILT FENCE
NOT TO SCALE

MAINTENANCE STANDARDS:

1. INSPECT WEEKLY ON ACTIVE SITES, MONTHLY ON INACTIVE SITES, & AFTER EACH STORM EVENT TO VERIFY PROTECTION IS STILL ADEQUATE. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT POND.
3. THE UPHILL SIDE OF THE FENCE SHALL BE PERIODICALLY CHECKED FOR SIGNS OF CLOGGING CAUSING CHANNELIZATION OF THE FLOWS PARALLEL TO THE FENCE. IN SUCH CASE, REPLACE THE FENCE AND OR REMOVE THE TRAPPED DEBRIS AND SEDIMENT.
4. SEDIMENT AND DEBRIS BUILD UP MUST BE REMOVED WHEN 6" HIGH.
5. REMOVE AND REPLACE DETERIORATED FILTER FABRIC DUE TO ULTRAVIOLET BREAKDOWN.
6. UPON COMPLETION OF WORK AND WHEN ALLOWED BY THE CITY OF AUBURN, THE CONTRACTOR SHALL REMOVE ALL FILTER FABRIC FENCE AND GRAVEL. PROVIDE FINISH GRADES WITH SURFACING MATERIAL AND LANDSCAPING AS REQUIRED.



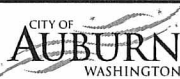
SECTION A-A
NOT TO SCALE

NOTES:

1. FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.
2. FOR ADDITIONAL TECHNICAL INFORMATION, REFER TO WSDOE BMP C233.

APPROVED BY CITY ENGINEER:

DATE:



SILT CONTROL
FENCE

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: E-02.1

DRAINAGE GRATE,
RECTANGULAR
GRATE SHOWN

CURB &
GUTTER

OVERFLOW BYPASS
OPENING (TYP.)

GEOTEXTILE
FABRIC

5" MAX.

SEDIMENT AND
DEBRIS RETRIEVAL
STRAPS (TYP.)

BELOW DRAINAGE
GRATE DEVICE

MAINTENANCE STANDARDS:

1. ANY ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC SHALL BE REMOVED PROMPTLY AND DISPOSED OF.
2. SEDIMENT SHALL NOT BE REMOVED WITH WATER INSIDE THE BASIN.
3. REGULAR MAINTENANCE IS REQUIRED. INSPECT WEEKLY ON ACTIVE SITES, MONTHLY ON INACTIVE SITES, & AFTER EACH STORM EVENT TO VERIFY PROTECTION IS STILL ADEQUATE. REPLACE AS NEEDED.
4. ANY SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN IT HAS FILLED 1/3 OF THE STORAGE CAPACITY OF THE FILTER DEVICE.
5. THE GEOTEXTILE FABRIC FILTER MEDIA SHALL BE INSPECTED AFTER EACH STORM EVENT & CLEANED OR REPLACED WHEN 1/3 OF STORAGE CAPACITY IS REACHED, OR MONTHLY, UNDER NORMAL WEATHER CONDITIONS, WHICHEVER OCCURS FIRST.
6. REMOVE CATCH BASIN INLET PROTECTION DEVICE UPON COMPLETION OF THE WORK.

SCHEMATIC DETAIL VIEW

NOT TO SCALE

CURB &
GUTTER

CATCH BASIN
WITH GRATE

5"
MAX.

EDGE OF
TRIM

GRATE FRAME

BELOW DRAINAGE
GRATE DEVICE

OVERFLOW BYPASS
OPENING (TYP.)

FILTERED
WATER

SEDIMENT
AND DEBRIS

CATCH
BASIN

SECTION A-A

NOT TO SCALE

NOTES:

1. THIS DEVICE IS APPLICABLE TO WHERE PONDING OF WATER ABOVE THE CATCH BASIN WILL NOT CAUSE TRAFFIC PROBLEMS AND WHERE OVERFLOW WILL NOT RESULT
2. THIS INSERT DEVICE SHALL HAVE A MINIMUM OF 0.5 C.F. OF STORAGE. IT SHALL ALSO PROVIDE FOR DE-WATERING STORED SEDIMENT, AN OVERFLOW, AND EASE OF MAINTENANCE.
3. FOR ADDITIONAL TECHNICAL INFORMATION, REFER TO WSDOE BMP C220.

APPROVED BY CITY ENGINEER:

DATE:



CATCH BASIN
INLET PROTECTION

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: E-03.2

CEMENT CONCRETE
BLOCK WITH HOLES
IN HORIZONTAL
POSITION, TYP.

OVERFLOW
WATER
DIRECTION

CEMENT CONCRETE
BLOCK WITH HOLES
FACING UP, TYP.

OVERFLOW
WATER
DIRECTION

FILTER
FABRIC

CATCH BASIN
GRATE

OVERFLOW
WATER
DIRECTION

A

GRAVEL FILTER WITH
3/4" TO 1-1/2" OF
CLEAN WASHED ROCK

PONDING
HEIGHT

AREA DRAIN
PLAN VIEW
NTS

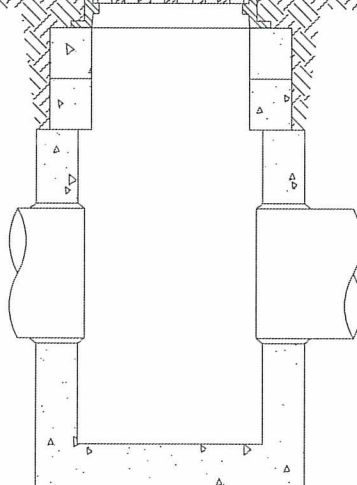
FILTER
FABRIC

OVERFLOW
WATER
DIRECTION

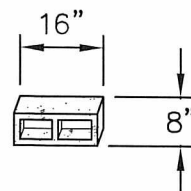
OVERFLOW
WATER
DIRECTION

MAINTENANCE STANDARDS:

1. ANY ACCUMULATED SEDIMENT ON OR AROUND THE GRAVEL FILTER SHALL BE REMOVED PROMPTLY AND DISPOSED OF.
2. SEDIMENT SHALL NOT BE REMOVED WITH WATER INSIDE THE CATCH BASIN.
3. INSPECT WEEKLY ON ACTIVE SITES, MONTHLY ON INACTIVE SITES, & AFTER EACH STORM EVENT TO VERIFY PROTECTION IS STILL ADEQUATE. REPLACE AS NEEDED.
4. REMOVE CATCH BASIN PROTECTION UPON COMPLETION OF PROJECT.
5. THIS DETAIL IS APPLICABLE ONLY WHERE PAVEMENT DOES NOT EXIST AROUND THE CATCH BASIN.



SECTION A-A
NTS



TYPICAL CEMENT
CONCRETE BLOCK
NTS

NOTES:

1. BASIN INLET IN SOME AREAS MAY REQUIRE (2) STACKS OF CEMENT CONCRETE BLOCKS, AS DIRECTED BY THE ENGINEER.
2. FOR ADDITIONAL TECHNICAL INFORMATION, REFER TO WSDOE BMP C220.

APPROVED BY CITY ENGINEER:

DATE:



ALTERNATE CATCH BASIN
INLET PROTECTION

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: E-04.2

48" MIN. PERFORATED CMP
STANDPIPE, W/ (40) 1"Ø MIN.
HOLES @ 10" O.C., OPEN TOP,
CLOSED BOTTOM, ENCASED IN
CONCRETE

DISTANCE GREATER
THAN MIN. HEAD TO
PASS DESIGN STORM

SHOW TOP
OF BERM
ELEVATION

SHOW OVERFLOW
ELEVATIONS

SILT FENCE
(TYP.)

SHOW & DESIGNATE
THE DESIGN STORM
ELEVATION

WATER
SURFACE

WATER
TIGHT SEAL
SHOW INVERT
ELEVATION

8" DIA.
PVC MIN.

SHOW "Q"
ALLOWABLE

8"x8"x8" PVC TEE
WITH RUBBER
GASKET JOINTS

SHOW ORIFICE SIZE
AS REQ'D

6" CONC.
BASE

COMPACTED
GRAVEL BASE

SHOW POND
BOTTOM
ELEVATION
3/4" TO 1-1/2"
WASHED ROCK
GRAVEL CONE

6" MIN.
DEAD
STORAGE

NOTES:

1. PROVIDE A RIP RAP LINED SPILLWAY, 6" MINIMUM ABOVE STANDPIPE, OPEN TOP.
2. A MULTIPLE PHASE POND SEPARATED BY PERVIOUS GRAVEL WINDOW MAY BE REQUIRED TO CONTROL AND TRAP SEDIMENT, AND TO REDUCE DISCHARGE ENERGY.
3. POND CHARACTERISTICS SUCH AS DESIGN VOLUME, INFLOW, OUTFLOW, AND MAXIMUM HEAD SHALL BE SHOWN ON PLANS.
4. THE OUTLET PIPE SHALL BE A MINIMUM OF 8" DIAMETER.
5. INDICATE SEASONAL HIGH GROUND WATER ELEVATION.
6. THIS DETAIL IS FOR DESIGN GUIDANCE ONLY, THE ENGINEER IS RESPONSIBLE FOR PROVIDING THE NECESSARY ELEVATIONS AND ORIFICE SIZES.
7. REFER TO WSDOE BMP 220 FOR ADDITIONAL INFORMATION.

APPROVED BY CITY ENGINEER:

DATE:



GRADING/EROSION DISCHARGE
CONTROL STRUCTURE

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: E-05.1

CRUSHED SURFACING BASE
COURSE (CSBC) PER SECTION
9-03.9(3) BETWEEN TRENCH
BACKFILL AND PAVEMENT. MATCH
EXISTING THICKNESS (4" MIN.)

SAW CUT FULL DEPTH
12" MIN. FROM EDGE OF
TRENCH EXCAVATION, TYP.

FOR RESTORATION
OF EXISTING ROADWAY
SEE STD DETAIL T-02

ASPHALT TACK APPLIED TO
ALL EXISTING PAVEMENT
SURFACES PER SECTION
5-04.3(4). TACK COAT SHALL
BE CSS-1 OR CSS-1H
EMULSIFIED ASPHALT, PG,
OR APPROVED EQUAL

EXISTING
SUBGRADE

SELECT TRENCH BACKFILL:
CRUSHED SURFACING TOP
COURSE (CSTC) PER SECTION
9-03.9(3)

IMPORTED PIPE TRENCH
BACKFILL: GRAVEL BORROW
PER SECTION 9-03.14(1)
SEE NOTE 3.

PIPE ZONE BEDDING:
CRUSHED SURFACING TOP
COURSE (CSTC) PER
SECTION 9-03.9(3)

HMA CL. 1/2 IN.
PG. 58H-22 MATCH
EXISTING DEPTH, OR
MIN. DEPTH PER
SECTION 10.07 OF
DESIGN STANDARDS,
WHICHEVER IS GREATER

PIPE
O.D.
6" MIN.
12" MIN.

TRANSVERSE TRENCH LONGITUDINAL TRENCH

IF THE TRENCH BOTTOM IS DETERMINED TO BE UNSUITABLE BY
THE ENGINEER, THE UNSUITABLE FOUNDATION MATERIAL SHALL
BE REMOVED & REPLACED WITH PIPE FOUNDATION MATERIAL:
AGGREGATE FOR GRAVEL BASE PER SECTION 9-03.10

NOTES:

1. TRANSVERSE TRENCHES ARE TRENCHES THAT RUN PERPENDICULAR OR DIAGONAL ACROSS THE TRAVELED WAY OF THE ROAD. LONGITUDINAL TRENCHES ARE TRENCHES THAT RUN PARALLEL WITH THE TRAVELED WAY OF THE ROAD.
2. ALL BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY.
3. MAY USE NATIVE MATERIAL FOR LONGITUDINAL TRENCH BACKFILL IF MATERIAL MEETS REQUIREMENTS OF SECTION 9-03.14(1).

APPROVED BY CITY ENGINEER:

DATE:
01/05/2021

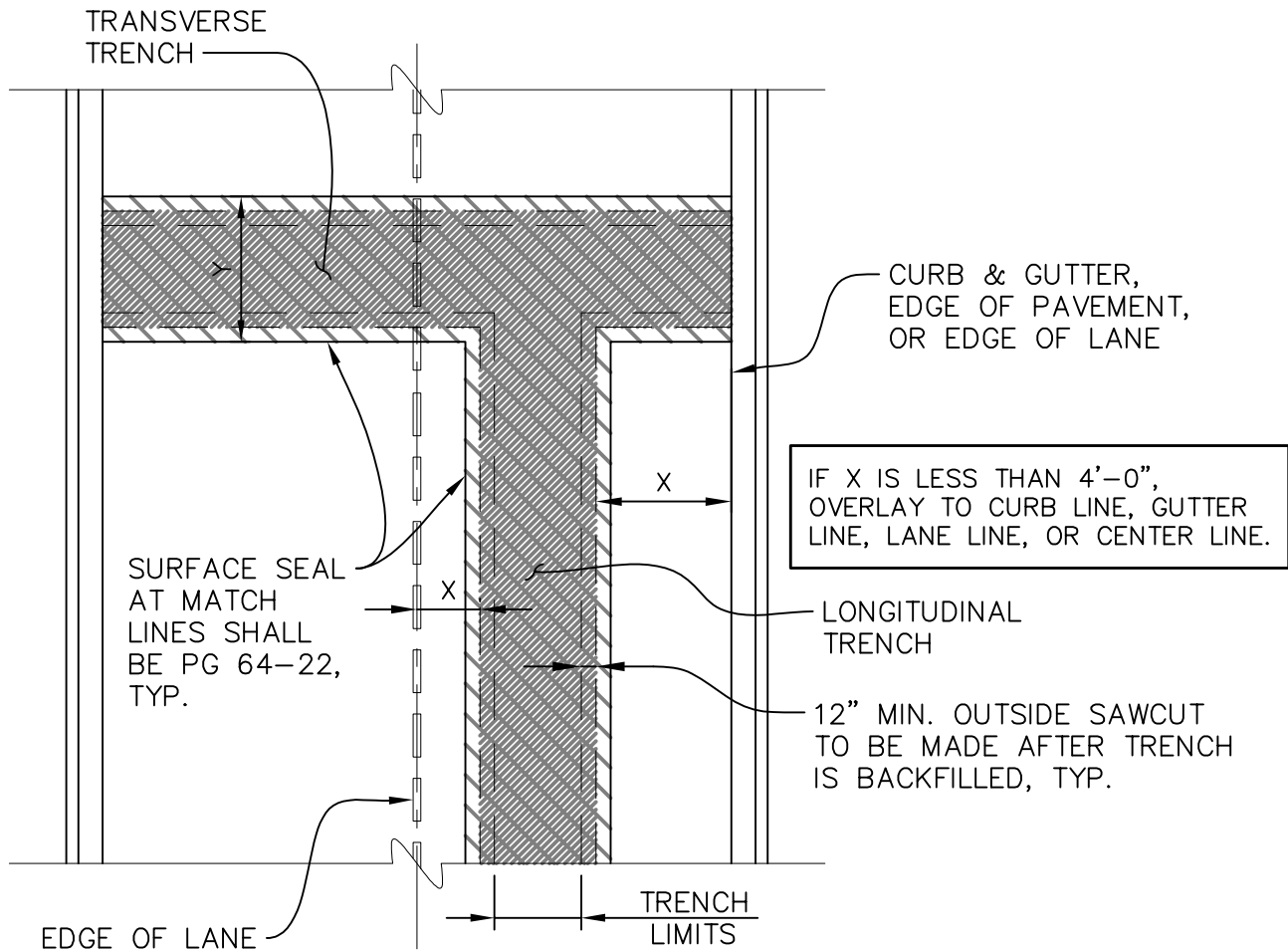


TYPICAL PIPE
TRENCH BACKFILL

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-01.4

Plotted by: Craig Dobyns on 12/09/20 File location: M:\Construction Standard Details\Current Working DWG\Traffic\STDETL-T-02.3



TYPE OF STREET	Y
PRINCIPAL ARTERIAL	50'
MINOR ARTERIAL	40'
COLLECTOR	30'
LOCAL	20'

LEGEND:

GRIND & OVERLAY
(2" MIN. DEPTH, 4' MIN. WIDTH)



FULL PAVEMENT DEPTH
REPLACEMENT (SEE STD. DTL. T-01)



FULL DEPTH SAWCUT



NOTES:

1. ADDITIONAL RESTORATION OVERLAY MAY BE REQUIRED AS DIRECTED BY ENGINEER.
2. TRENCHES IN/ACROSS INTERSECTIONS SHALL BE RESTORED PER T-02A.
3. ASPHALT PAVEMENT SHALL MATCH EXISTING PAVEMENT THICKNESS AND GRADE, OR PER DESIGN STANDARDS, WHICHEVER IS THICKER/STRONGER.
4. WHERE THE TRENCH CROSSES A CROSSWALK/PEDESTRIAN PATH AND THE TOTAL RESTORATION WIDTH EQUALS OR EXCEEDS HALF THE PEDESTRIAN PATH LENGTH, THE CONTRACTOR SHALL UPGRADE EXISTING CURB RAMPS THAT DO NOT MEET CURRENT ADA STANDARDS OR INSTALL NEW CURB RAMPS IF NOT PRESENT.

APPROVED BY CITY ENGINEER:

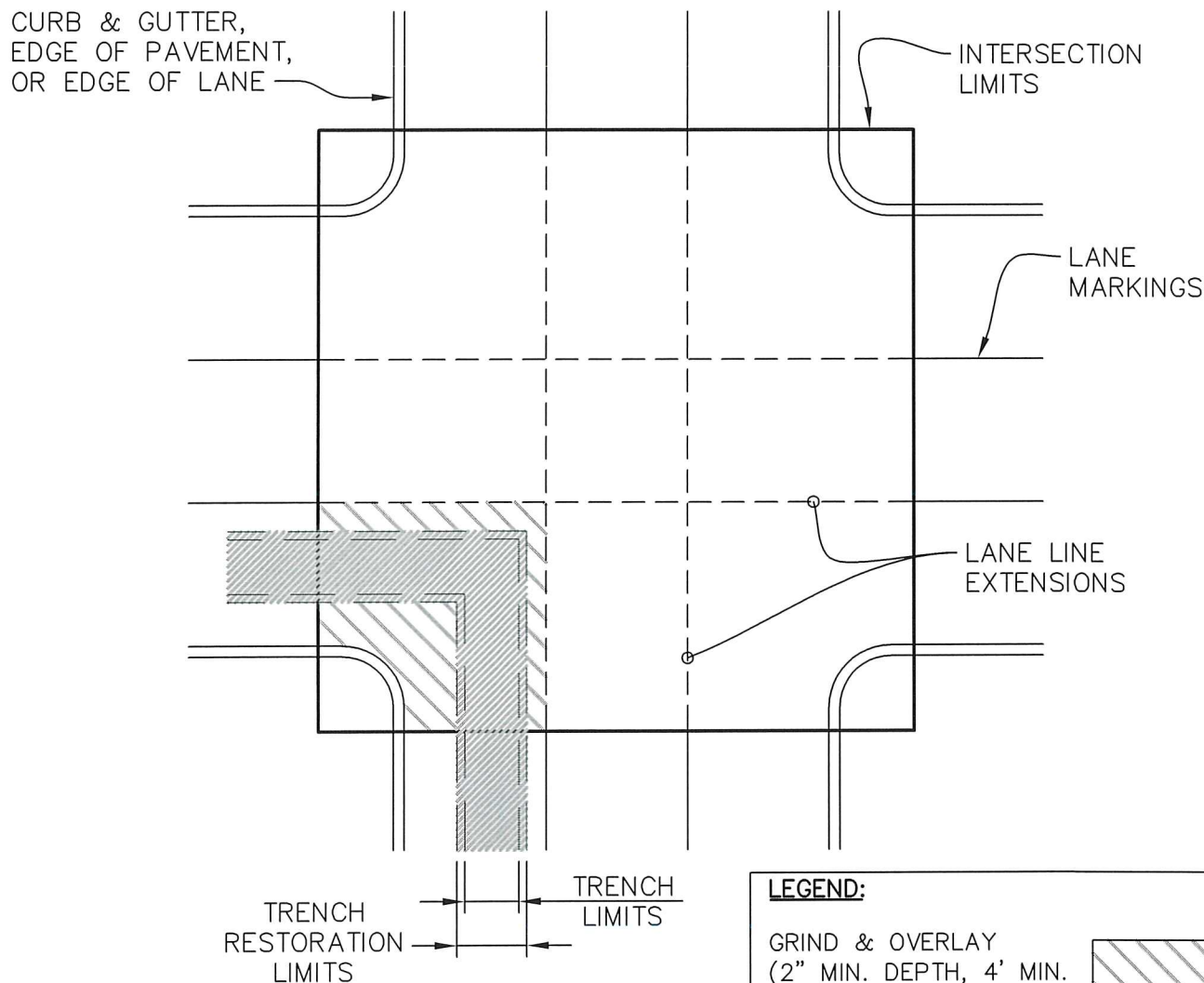
DATE:
01/05/2021



EXISTING ROADWAY RESTORATION
OF UTILITY TRENCHES

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-02.3

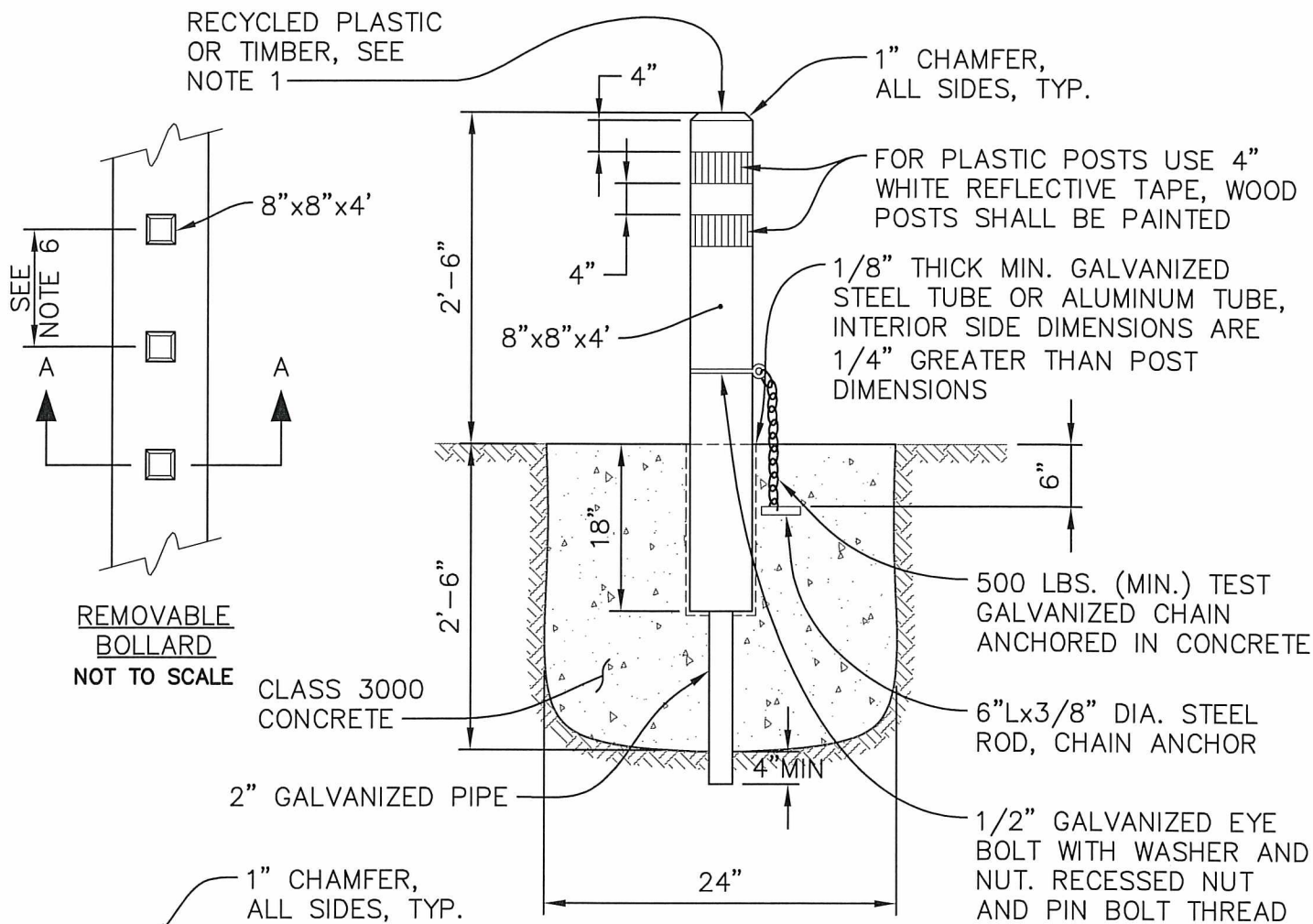


LEGEND:

FULL PAVEMENT DEPTH
REPLACEMENT (SEE STD.
DTL. T-01)

FULL DEPTH SAWCUT

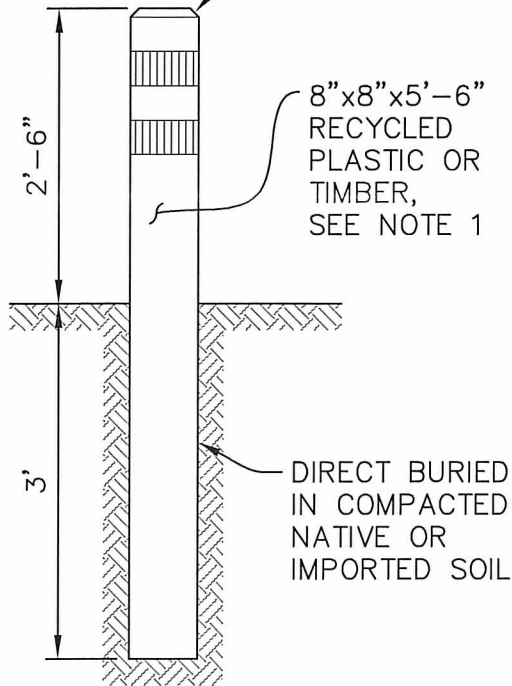
NOTES:



SECTION A-A
NOT TO SCALE

NOTES:

1. RECYCLED PLASTIC BOLLARDS SHALL BE WHITE. TIMBER SHALL BE DOUGLAS FIR OF DENSE CONSTRUCTION GRADE, AND SHALL BE PRESSURE TREATED WITH WEATHER BORNE PRESERVATIVE (ACA, CCA, ACZA) IN ACCORDANCE WITH REQUIREMENTS OF SEC. 9-09.3(1) (GENERAL REQUIREMENTS) OF WSDOT STANDARD SPECIFICATIONS AND CITY'S AMENDMENTS THERETO. TOP 5" OF TIMBER SHALL BE PAINTED WHITE.
2. GALVANIZED STEEL TUBE SHALL CONFORM TO ASTM A53 GRADE A.
3. NUTS, BOLTS, & WASHERS SHALL CONFORM TO ASTM A307.
4. ALL STEEL PARTS SHALL BE GALVANIZED.
5. CEMENT CONCRETE SHALL BE CLASS 3000.
6. MINIMUM OF 5'-0" O.C. SPACING.
7. BOLLARD SHALL BE PLUMBED VERTICALLY IN ALL DIRECTIONS.



APPROVED BY CITY ENGINEER:

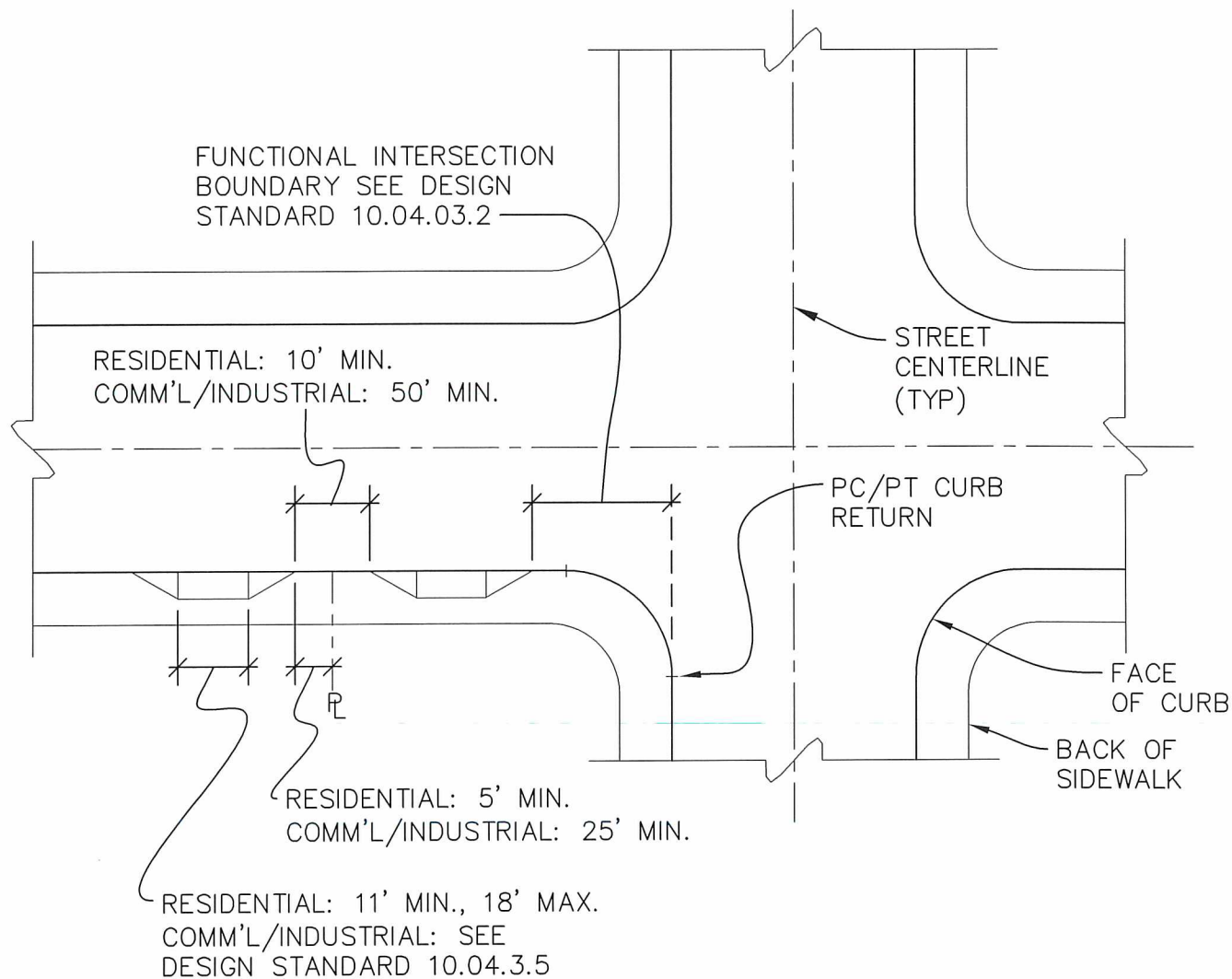
DATE:



TYPICAL
BOLLARD INSTALLATION

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-03.2



NOTES:

1. DRIVEWAY WIDTHS AND LOCATIONS SHALL BE IN ACCORDANCE WITH SECTION 10.04 OF THE DESIGN STANDARDS.
2. DRIVEWAY TO BE CONSTRUCTED PER STANDARD DETAIL T-34 OR T-35.
3. RESIDENTIAL DRIVEWAYS SERVING 2 OR MORE LIVING UNITS SHALL BE LIGHT COMMERCIAL/INDUSTRIAL DRIVEWAYS.

APPROVED BY CITY ENGINEER:

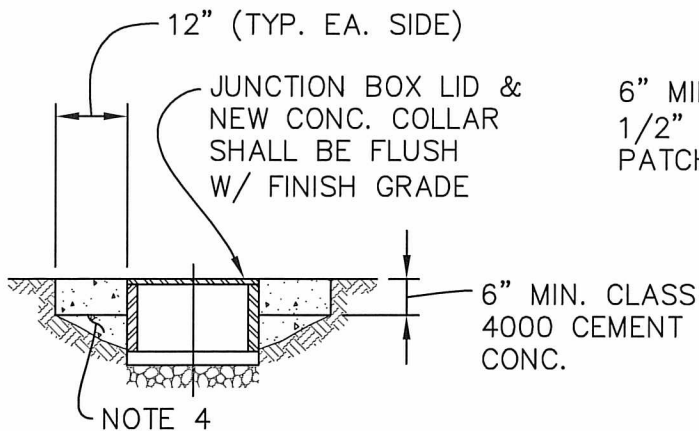
DATE:



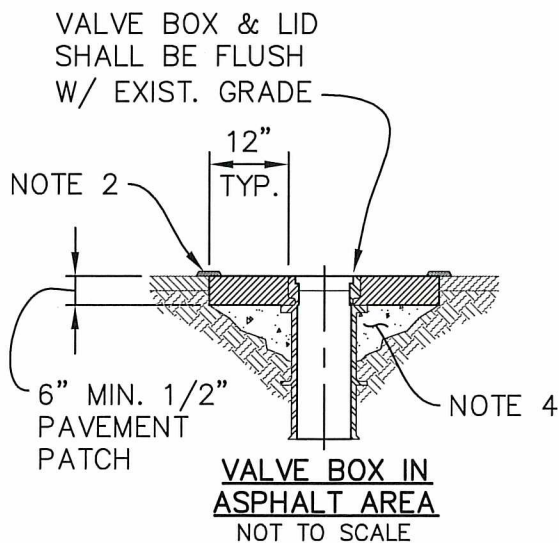
DRIVEWAY WIDTHS
AND LOCATION

PUBLIC WORKS DEPARTMENT

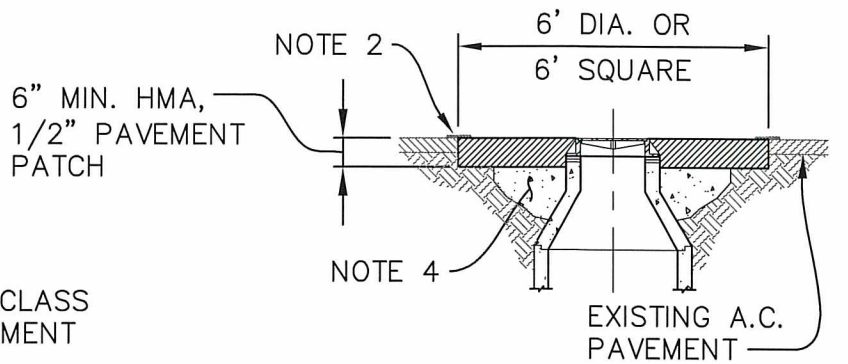
STANDARD DETAIL: T-04.4



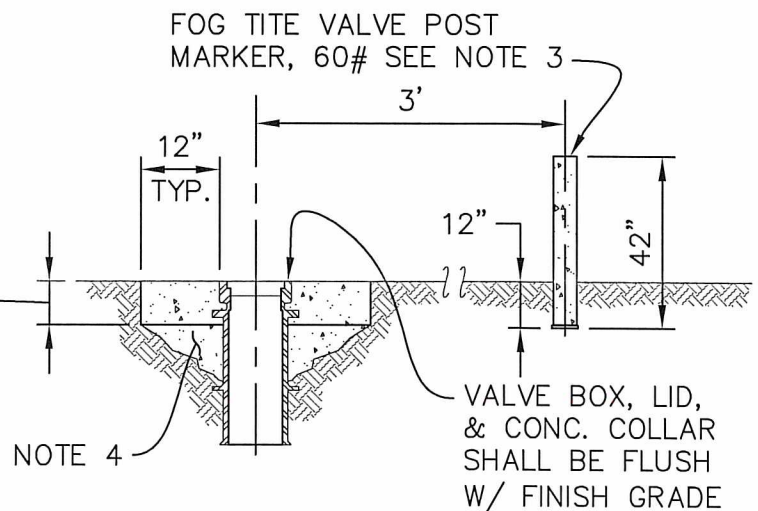
JUNCTION BOX IN UNIMPROVED OR PARTIAL ASPHALT AREA
NOT TO SCALE



6" MIN. CLASS 4000 CEMENT CONCRETE



MANHOLE OR CATCH BASIN IN UNIMPROVED AREA
NOT TO SCALE



NOTES:

1. ADJUSTMENT OF SANITARY SEWER AND STORM STRUCTURES SHALL BE PER SECTION 7-05.3(1). ADJUSTMENT OF WATER UTILITY STRUCTURES SHALL BE PER SECTION 7-12.3(2).
2. SURFACE SEAL AT MATCHLINE SHALL BE CSS-1 OR CSS-1H EMULSIFIED ASPHALT OR PG.
3. VALVE IN UNIMPROVED AREAS SHALL HAVE A VALVE POST MARKER.
4. FILL ANY VOIDS OR DISTURBED AREAS BELOW 6" WITH QUICK SETTING CEMENT CONCRETE, DEPTH AS REQUIRED.
5. RISER RING HEIGHT 2" MIN. 25" MAX. ANY ADJUSTMENT OVER 18" REQUIRES A HAND HOLD.

APPROVED BY CITY ENGINEER:

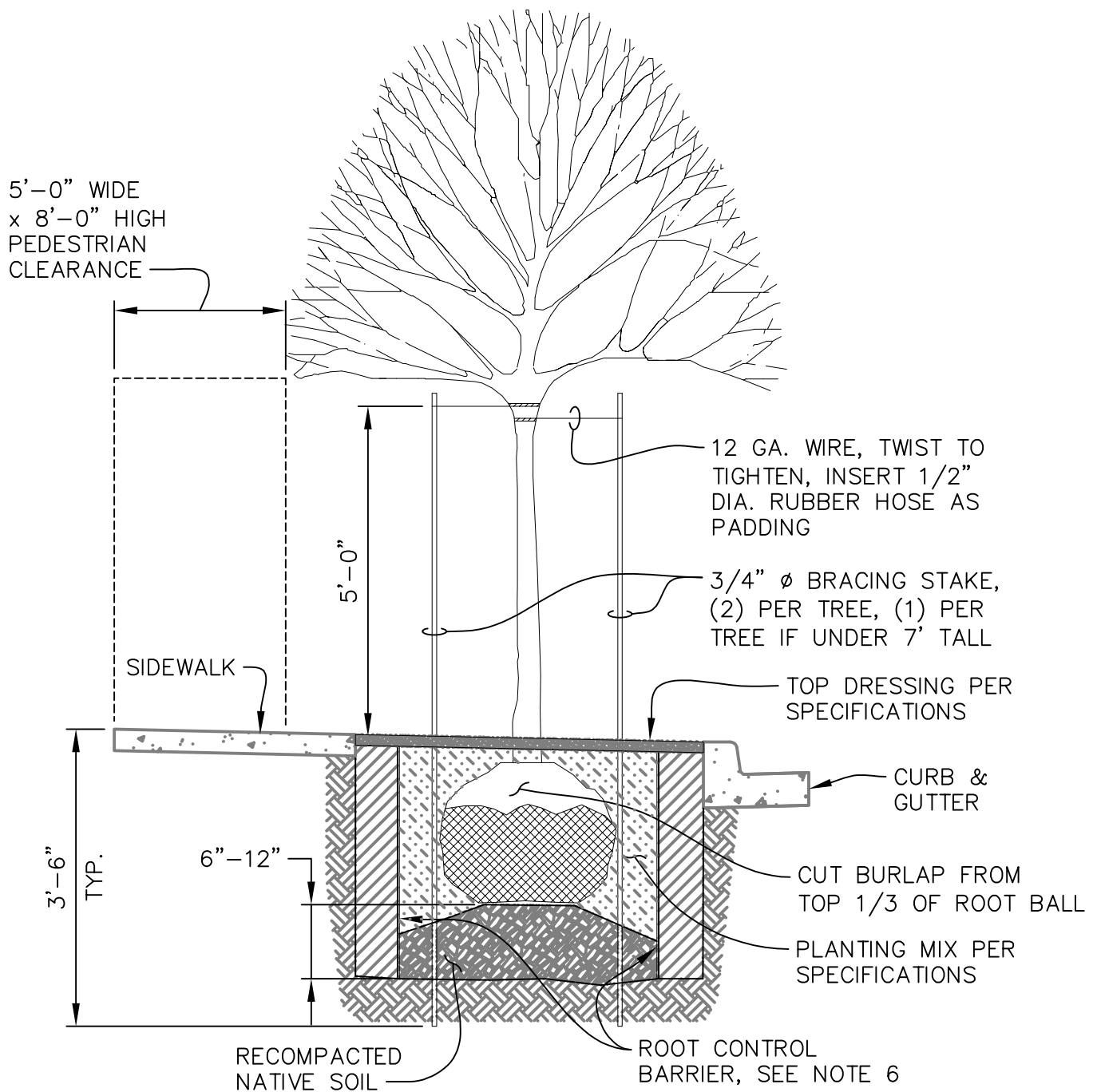
DATE:



ADJUSTMENT OF NEW AND EXISTING UTILITY STRUCTURES TO FINISH GRADE

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-05.2



NOTES:

1. PLANT TREES 1" HIGHER THAN GROWN IN NURSERY.
2. TREE PIT SHALL NOT BE LESS THAN 2 TIMES THE ROOT BALL DIAMETER.
3. STREET TREES SHALL NOT BE PLACED WITHIN SIGHT DISTANCE TRIANGLE.
4. TOP DRESSING SHALL BE PER SECTION 10-09 OF THE DESIGN STANDARDS OR AS SHOWN ON THE CONTRACT PLANS.
5. STREET TREES SHALL BE SELECTED FROM THE CITY APPROVED LIST OF STREET TREES.
6. INSTALL A MINIMUM 18" TO 24" DEEP ROOT CONTROL BARRIER AT GRADE TO AT LEAST 6 INCHES BELOW THE ROOT BALL.

APPROVED BY CITY ENGINEER:

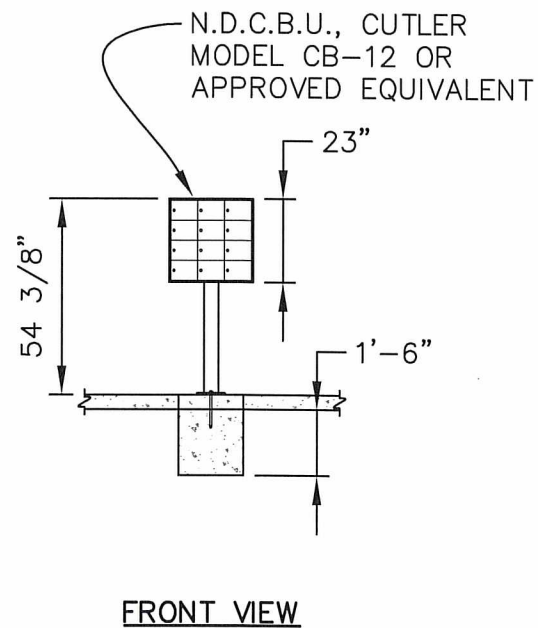
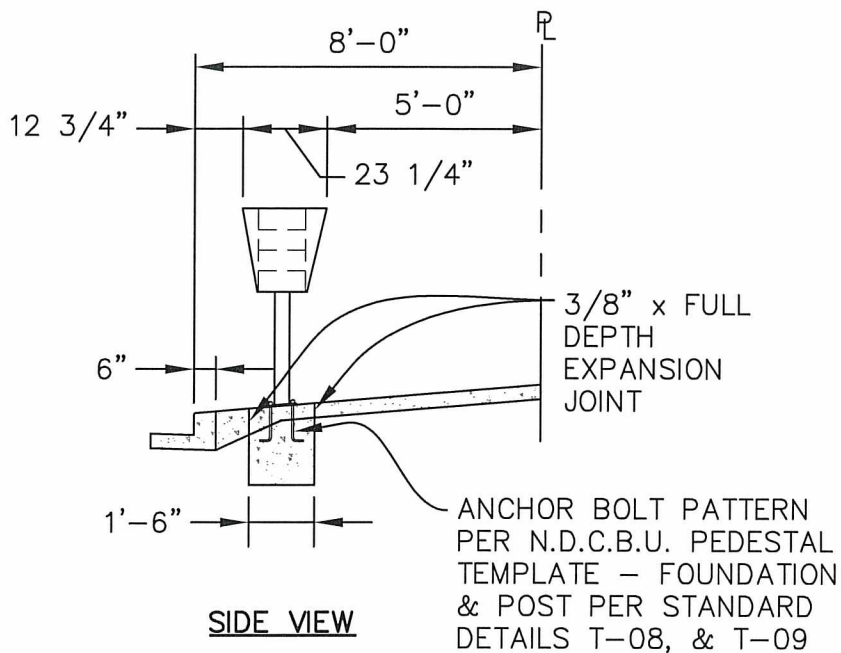
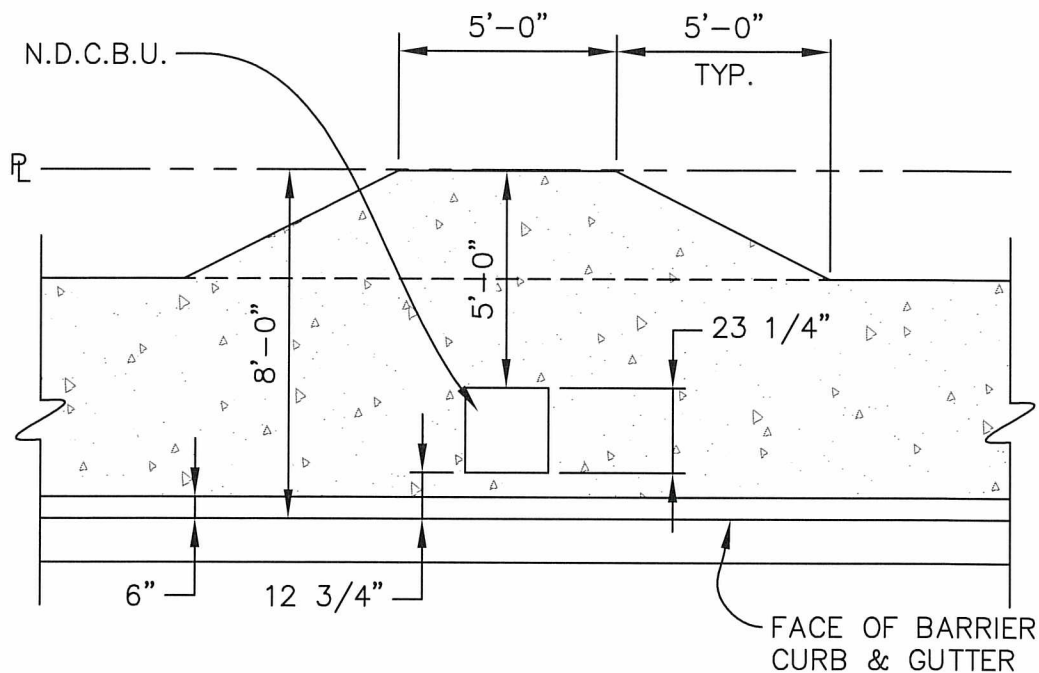
DATE:
01/05/2021



STREET TREE
IN LANDSCAPE STRIP

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-06.3



NOTE:

MAILBOX LOCATIONS SHALL BE COORDINATED WITH THE SERVING POST OFFICE AND APPROVED BY THE CITY OF AUBURN.

APPROVED BY CITY ENGINEER:

DATE:

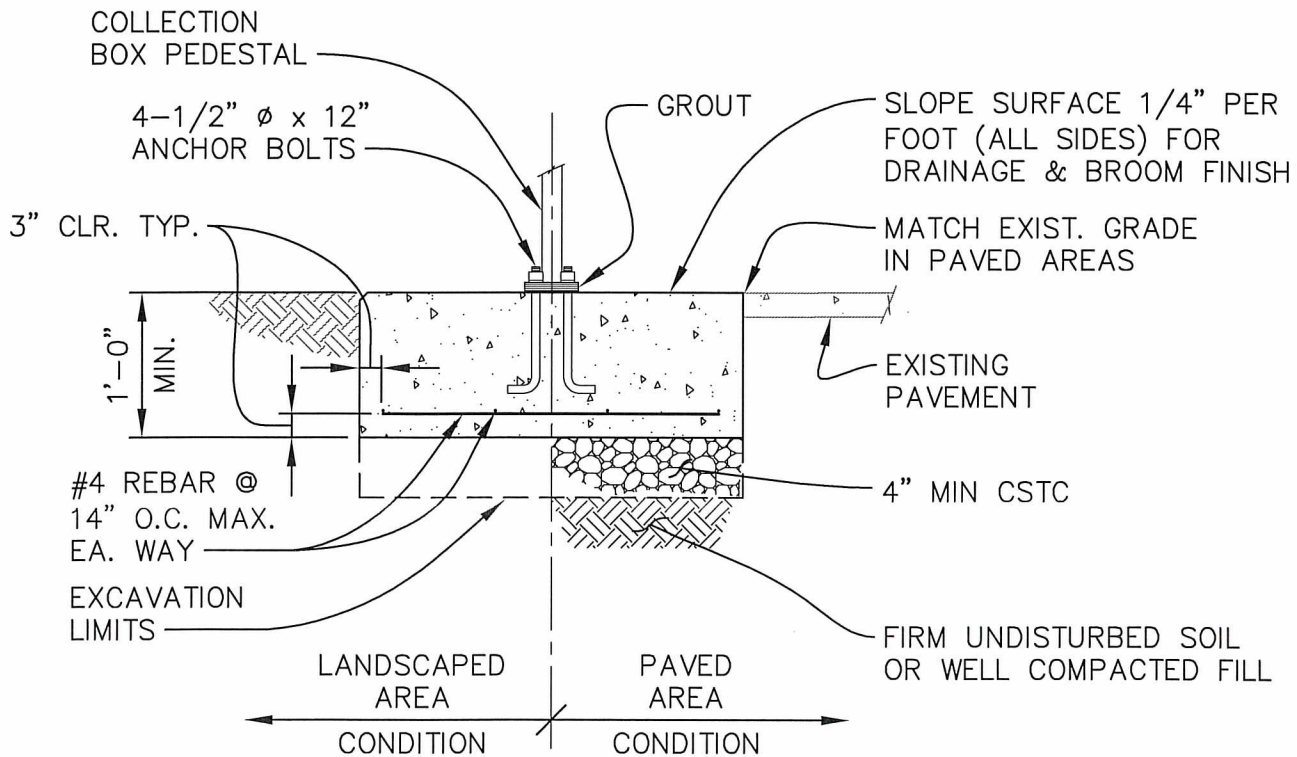
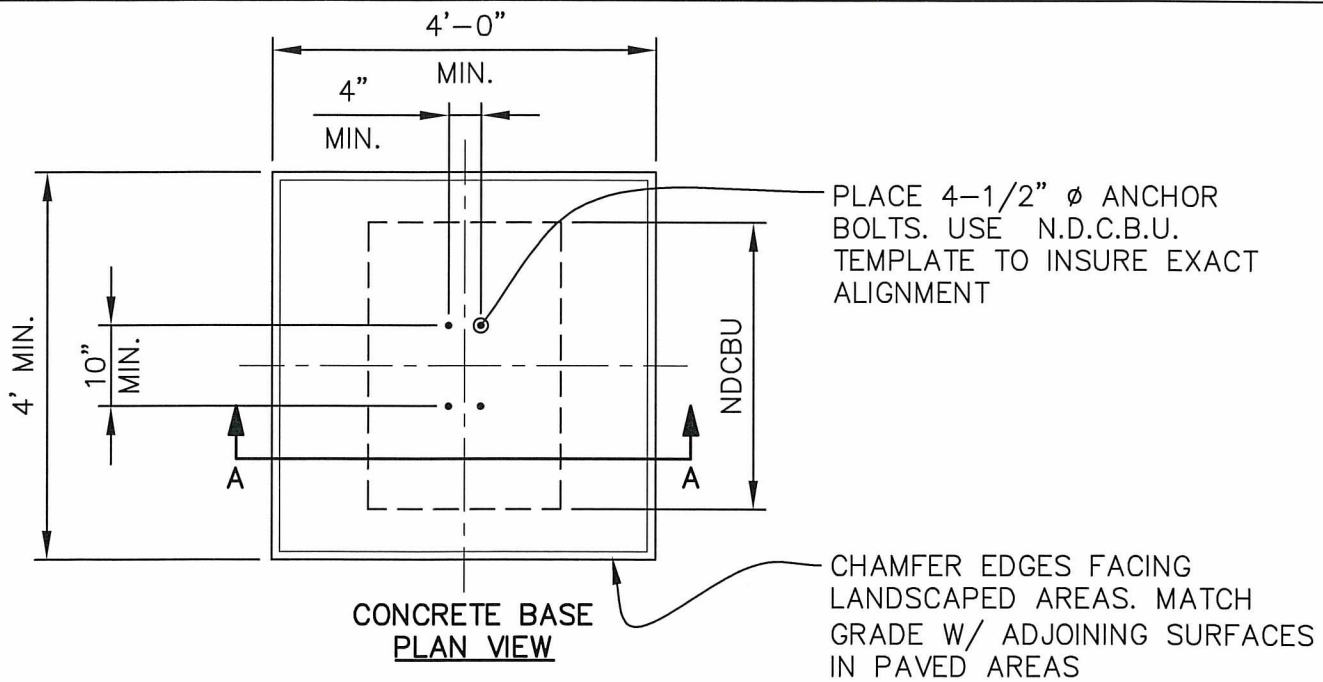
8/5/2016



NEIGHBORHOOD DELIVERY & COLLECTION BOX UNIT (N.D.C.B.U.) INSTALLATION

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-07.1



NOTES:

SECTION A-A

1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, CONTAIN 4% MIN. TO 6% MAX. AIR ENTRAINMENT AND BE PLACED WITH A 3-1/2" TO 4-1/2" SLUMP IN ACCORDANCE WITH ACI 301.
2. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 40.
3. ANCHOR BOLTS SHALL CONFORM TO ASTM A307, GALVANIZED CARBON STEEL OR ASTM A193, B8M (316) STAINLESS STEEL.
4. GROUT SHALL BE NON-SHRINK, NON-METALLIC.

APPROVED BY CITY ENGINEER:

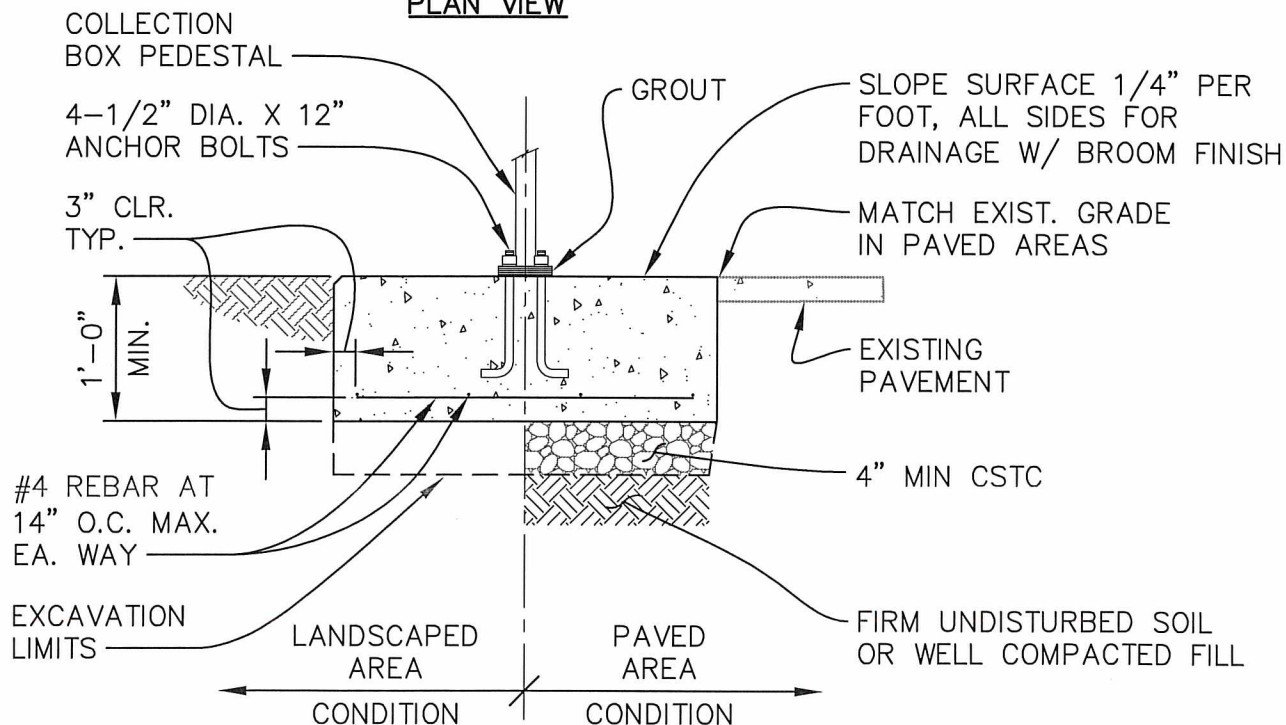
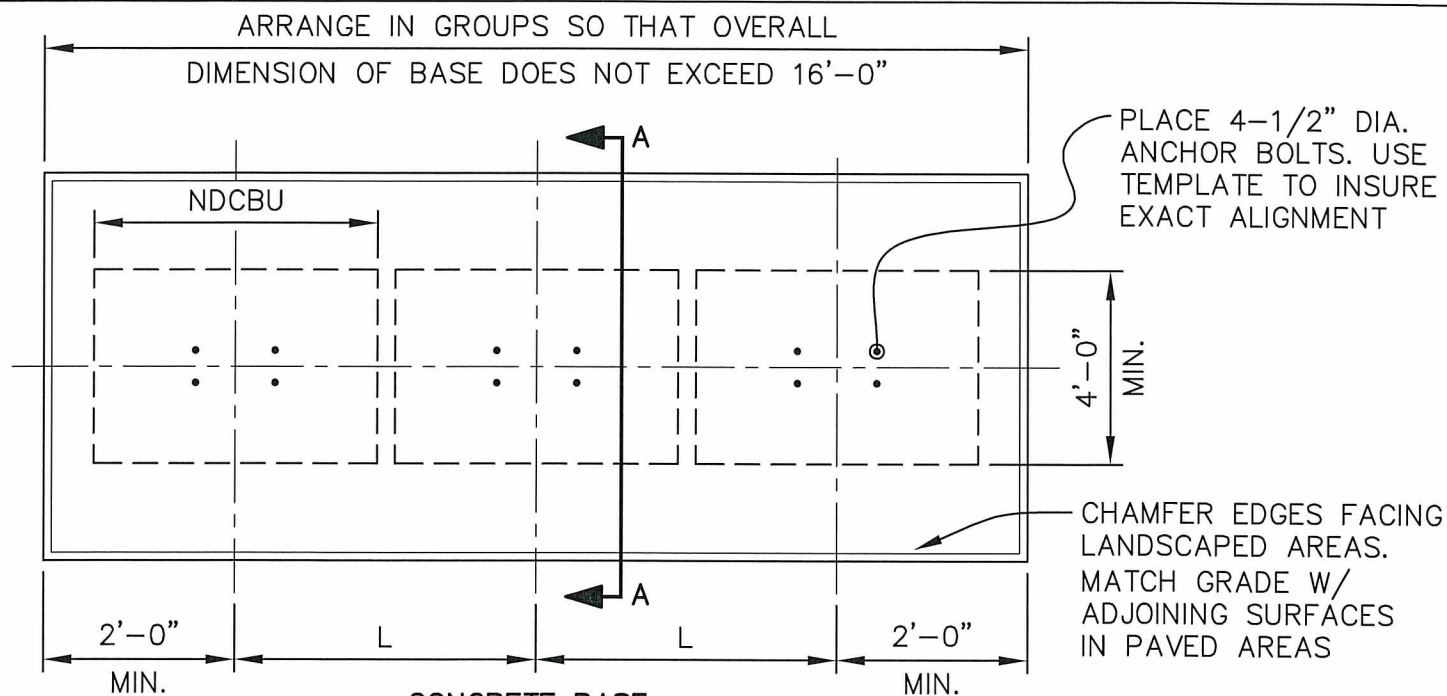
DATE:



NEIGHBORHOOD DELIVERY & COLLECTION BOX UNIT (N.D.C.B.U.) SINGLE UNIT

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-08.2



NOTES:

SECTION A-A

1. CONCRETE BASE DIMENSION "L" IS THE WIDTH OF NDCBU PLUS 2". FOUNDATION CAN BE EXTENDED BY LENGTH "L" TO ACCOMODATE ADDITIONAL UNITS.
2. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, CONTAIN 4% MIN. TO 6% MAX. AIR ENTRAINMENT AND BE PLACED W/ A 3 1/2" TO 4 1/2" SLUMP IN ACCORDANCE W/ ACI 301.
3. REINFORCING STALL SHALL CONFORM TO ASTM A615, GRADE 40.
4. ANCHOR BOLTS SHALL CONFORM TO ASTM A307, GALVANIZED CARBON STEEL OR ASTM A193, B8M (316) STAINLESS STEEL.

APPROVED BY CITY ENGINEER:

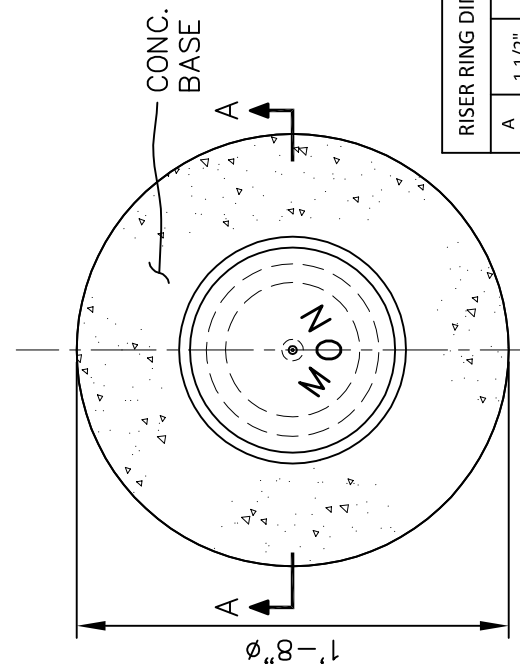
DATE:



NEIGHBORHOOD DELIVERY & COLLECTION
BOX UNIT (N.D.C.B.U.) MULTIPLE UNITS

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

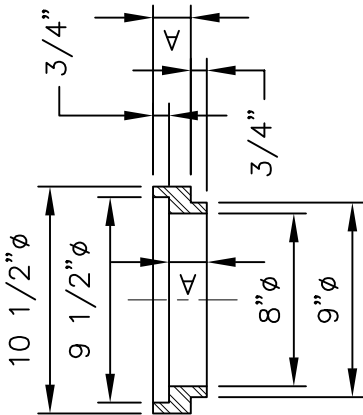
STANDARD DETAIL: T-09.2



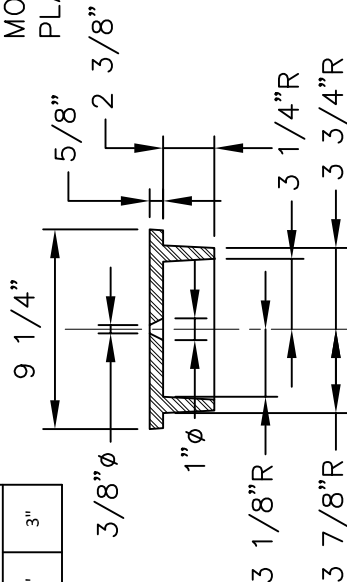
PLAN
NTS

RISER RING DIMENSIONS			
A	1 1/2"	2"	3"
(SIZE)			

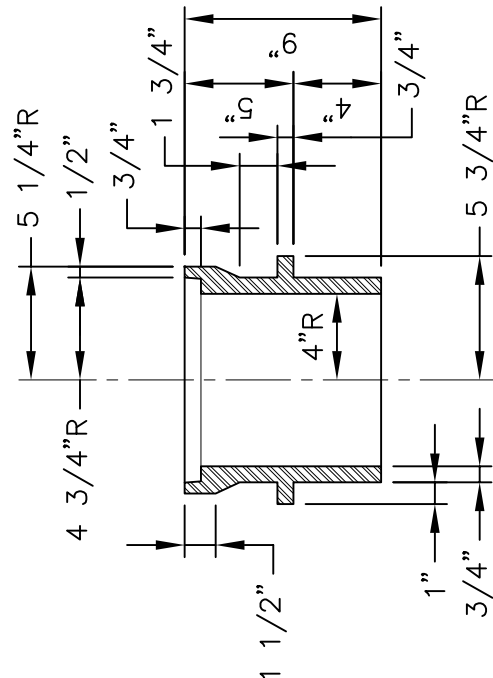
RISER RING SECTION
NTS



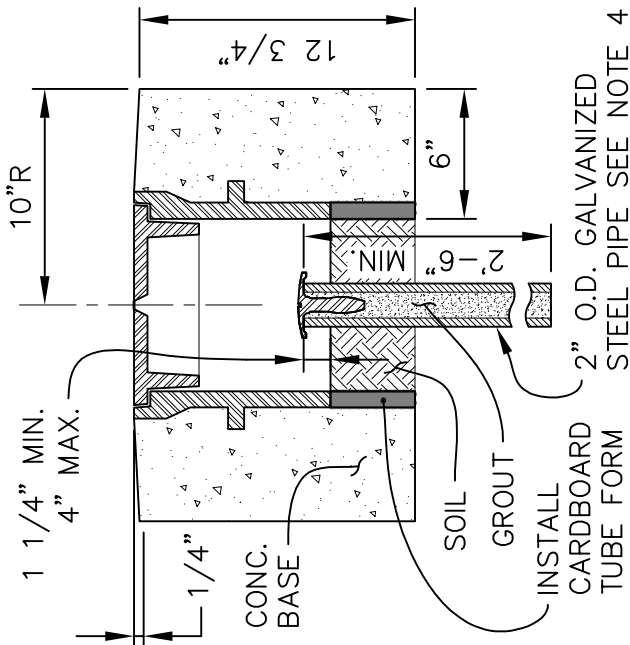
NTS



COVER SECTION
NTS



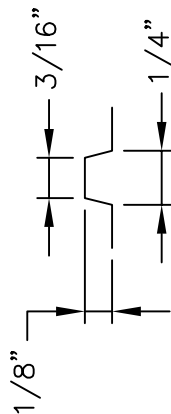
CASE SECTION
NTS



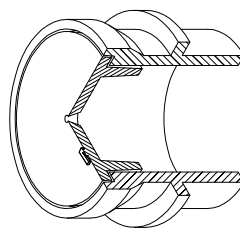
SECTION A-A
NTS

NOTES:

1. THIS DETAIL APPLIES TO MONUMENTS ALONG AUBURN WAY NORTH/SOUTH (SR-164).
2. DIMENSIONS MAY VARY ACCORDING TO MANUFACTURER.
3. BASE TO BE PLACED ON A WELL COMPACTED FOUNDATION.
4. MONUMENT CASE TO BE INSTALLED BY CONTRACTOR.
5. SEE WSDOT STD. PLAN A-10.20 FOR MONUMENT (BRASS DISC) TYPE TO PLACE IN 2" O.D. GALVANIZED PIPE.



LETTER SECTION
NTS



ISOMETRIC
NTS

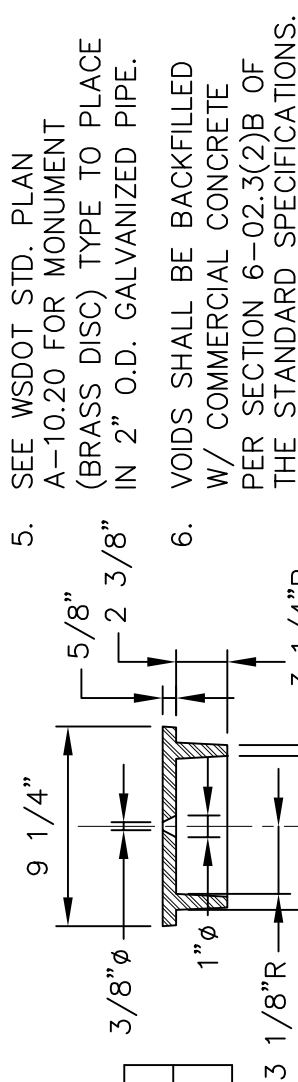
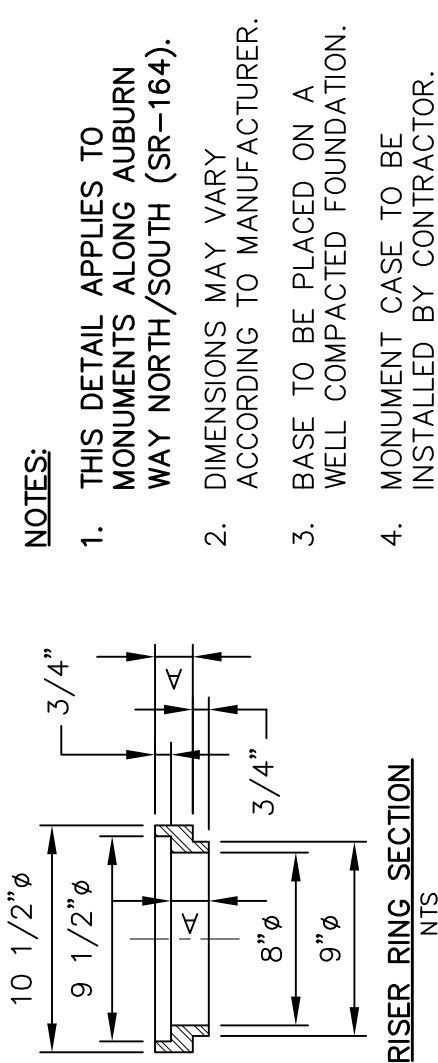
APPROXIMATE WEIGHTS	
CASE	60 LBS.
COVER	19 LBS.
TOTAL	79 LBS.

APPROVED BY CITY ENGINEER:

DATE:
01/05/2021

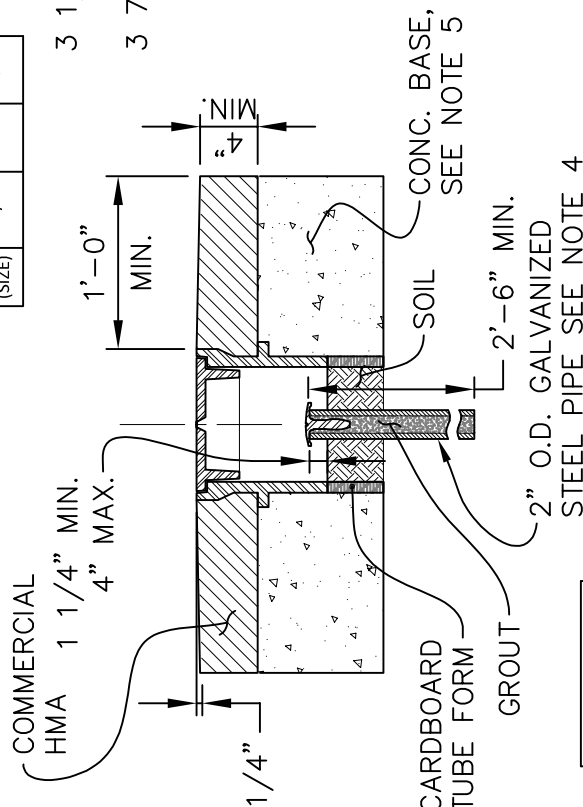


POURED IN PLACE MONUMENT
TYPE 'B' MODIFIED

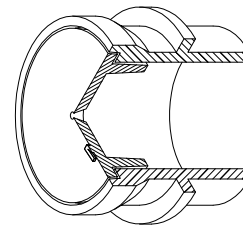
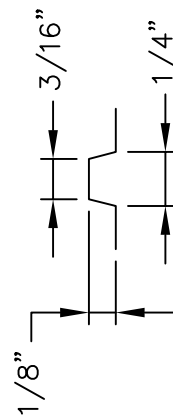


RISER RING DIMENSIONS		
A	1 1/2"	2"
(SIZE)	2"	3"

PLAN
NTS



APPROXIMATE WEIGHTS	
CASE	60 LBS.
COVER	19 LBS.
TOTAL	79 LBS.



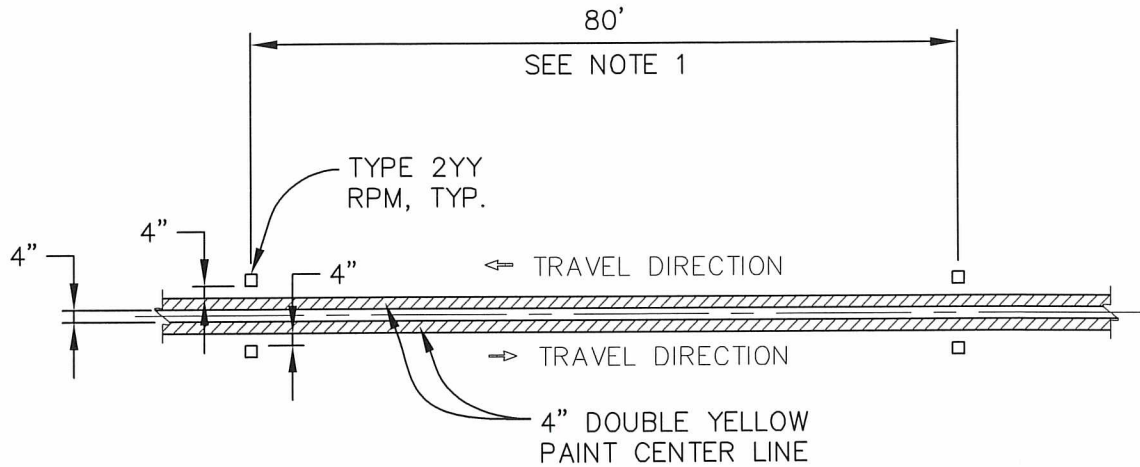
CASE SECTION
NTS

APPROVED BY CITY ENGINEER:

DATE:
01/05/2021



POURED IN PLACE MONUMENT
TYPE 'B' MODIFIED (ASPHALT)



PLAN
DOUBLE CENTERLINE

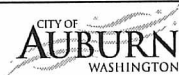
NOTES:

1. RAISED PAVEMENT MARKERS SHALL BE SPACED AT 80' (FT.) INTERVALS ON TANGENTS AND ON HORIZONTAL CURVES W/ A RADIUS OF 1500' (FT.) OR MORE, AND 40' (FT.) INTERVALS ON HORIZONTAL CURVES HAVING RADII OF LESS THAN 1500' (FT.).

APPROVED BY CITY ENGINEER: *FOR*

DATE:

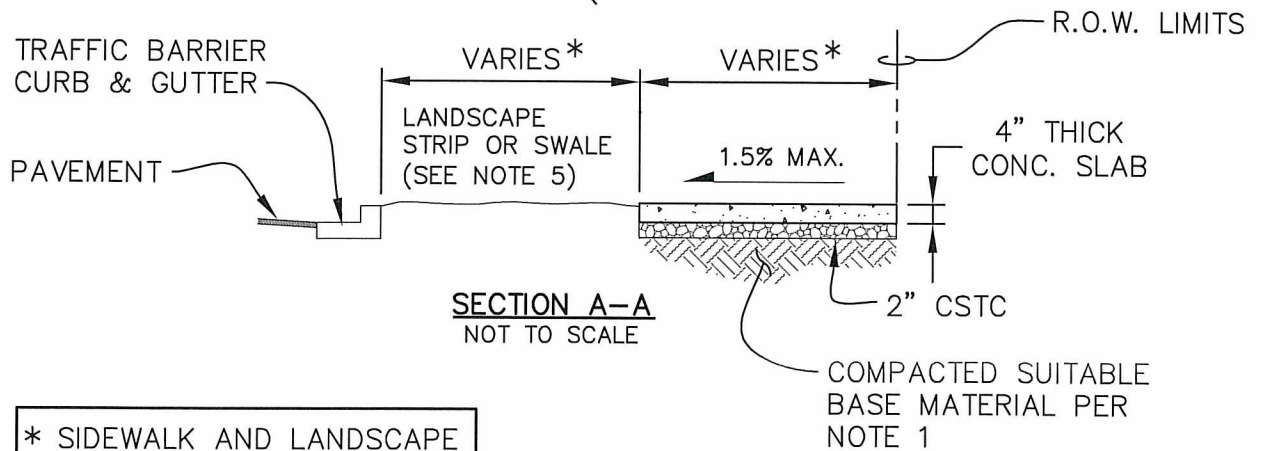
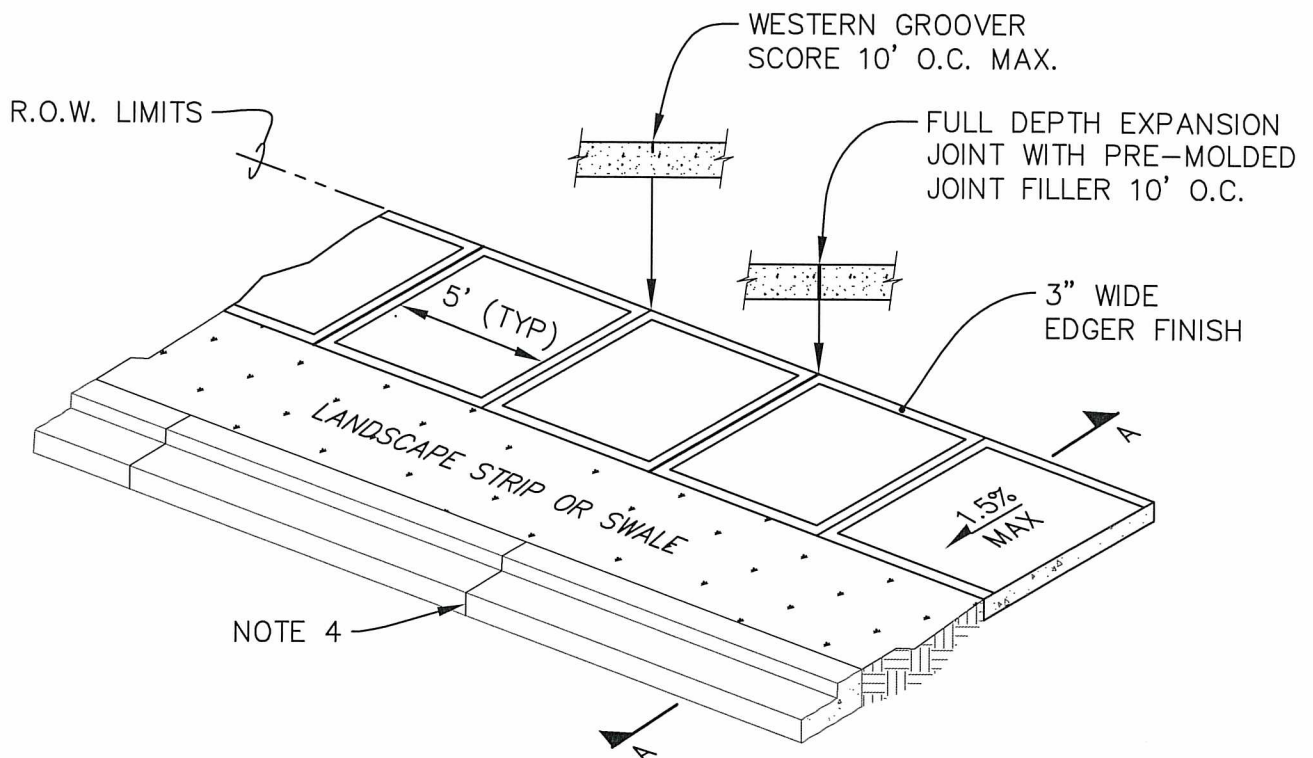
10/14/16



DOUBLE CENTERLINE WITH
RAISED PAVEMENT MARKERS

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-12.1



* SIDEWALK AND LANDSCAPE
WIDTHS SHALL BE PER
STREET CLASSIFICATION.

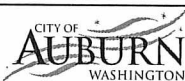
NOTES:

1. PLACE CEMENT CONCRETE ON COMPACTED SUITABLE BASE, AS PER SPECIFICATION SECTION 2-06.3 AND AS APPROVED BY THE ENGINEER.
2. CEMENT CONCRETE SHALL BE CLASS 3000 PER SPECIFICATION SECTION 6-02.3 WITH 5% AIR ENTRAINMENT.
3. INSPECTION REQUIRED FOR FORM AND SUB GRADE APPROVAL BEFORE POURING CONCRETE.
4. MATCH JOINTS ON SIDEWALK WITH JOINTS ON CURB OR AT 10' O.C.
5. LANDSCAPE STRIP SHALL GENERALLY BE GRADED TOWARDS THE CURB AT 1.5%. OTHER GRADES MAY BE ALLOWED WHERE IT CAN BE DEMONSTRATED TO NOT CAUSE DRAINAGE OR MAINTENANCE ISSUES.

APPROVED BY CITY ENGINEER:

DATE:

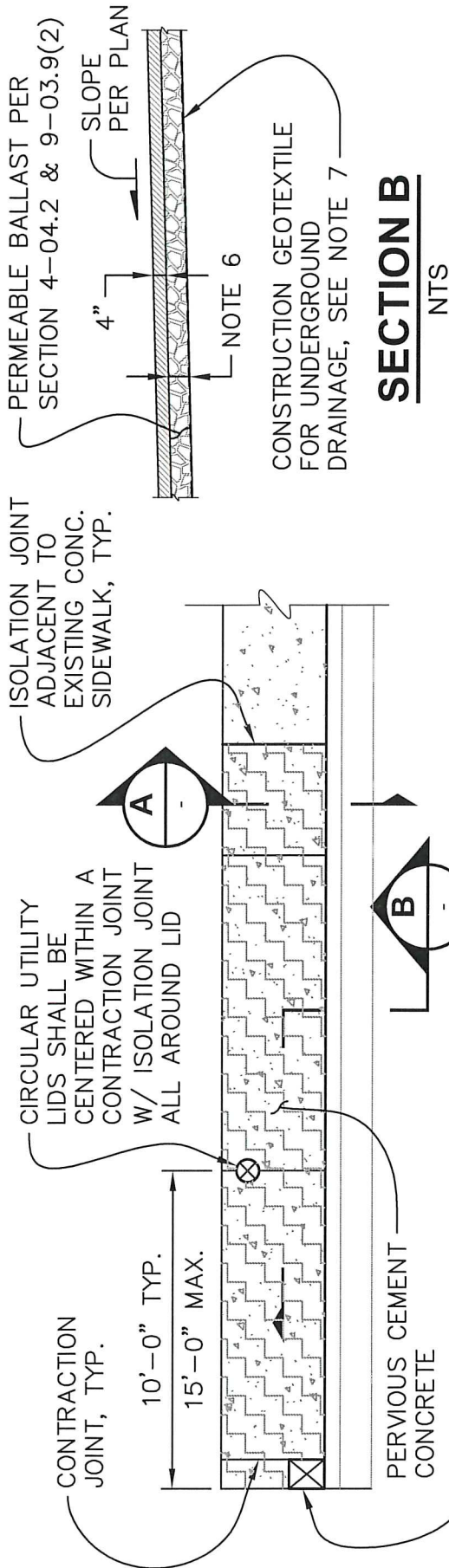
2/20/2018



CEMENT CONCRETE SIDEWALK
WITH LANDSCAPE STRIP

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-13.2

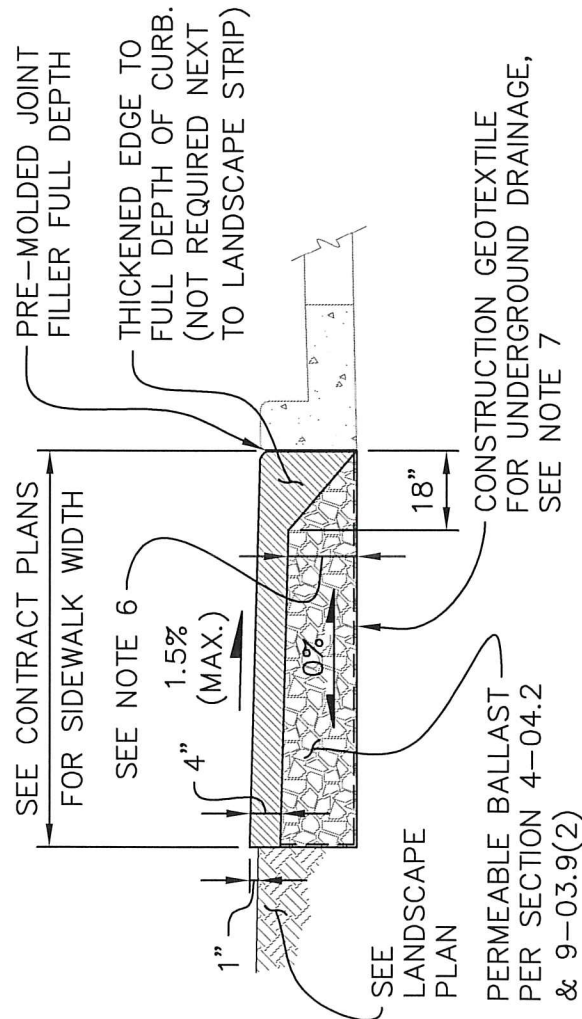


PLAN

NTS

NOTES:

1. ISOLATION JOINTS SHALL BE FULL DEPTH WITH 3/8" PREMOLDED JOINT FILLER.
2. CONTRACTION JOINTS SHALL HAVE A MINIMUM DEPTH OF 1/3 OF THE PERVIOUS CONCRETE THICKNESS AND 1/8" MAXIMUM WIDTH (UNLESS OTHERWISE APPROVED BY THE ENGINEER).
3. ALL JOINTS SHALL BE CLEAN & EDGED WITH A 1/2" RADIUS EDGER.
4. SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH SECTION 2-06.3(3) (SUBGRADE FOR PERMEABLE PAVEMENTS). ALL SOFT & YIELDING FOUNDATION MATERIAL SHALL BE REMOVED & REPLACED WITH PERMEABLE BALLAST
5. FOR BALLAST DEEPER THAN CURB, PROVIDE A GEOMEMBRANE BARRIER BETWEEN PERMEABLE BALLAST & ROAD SECTION UNLESS ADJACENT ROAD IS PERMEABLE AS REQUIRED BY THE ENGINEER.
6. DEPTH OF PERMEABLE BALLAST VARIES. SEE SWMM FOR SPECIFIC REQUIREMENTS.
7. CONSTRUCTION GEOSYNTHETIC MAY BE REQUIRED BETWEEN NATIVE SOILS & PERMEABLE BALLAST IF DIRECTED BY THE ENGINEER. WHEN REQUIRED, THE GEOTEXTILE SHALL BE CLASS A, MODERATE SURVIVABILITY PER SECTION 9.33.2(1) TABLES 1 & 2 (UNLESS OTHERWISE APPROVED BY THE ENGINEER).

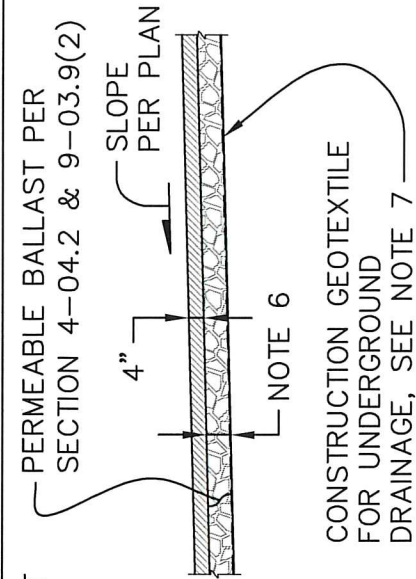


SECTION A

NTS

SECTION B

NTS



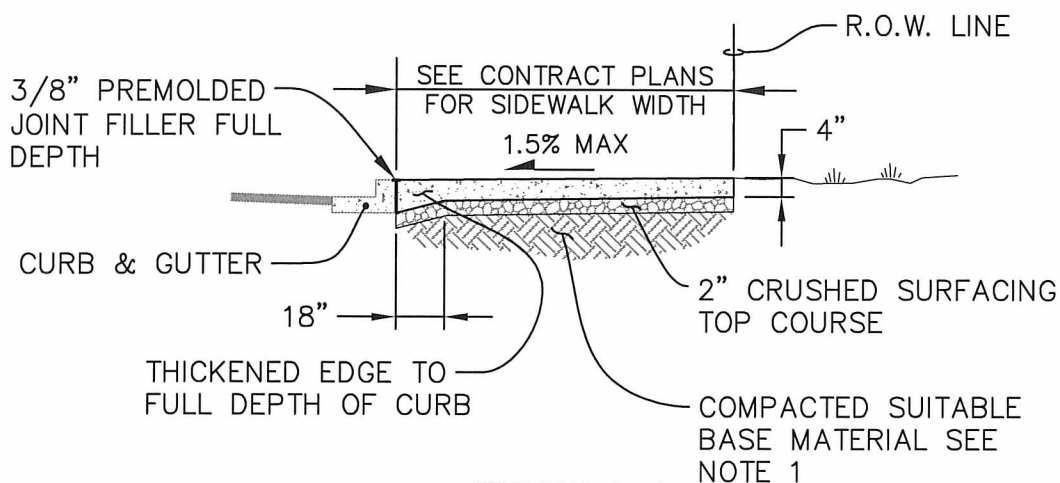
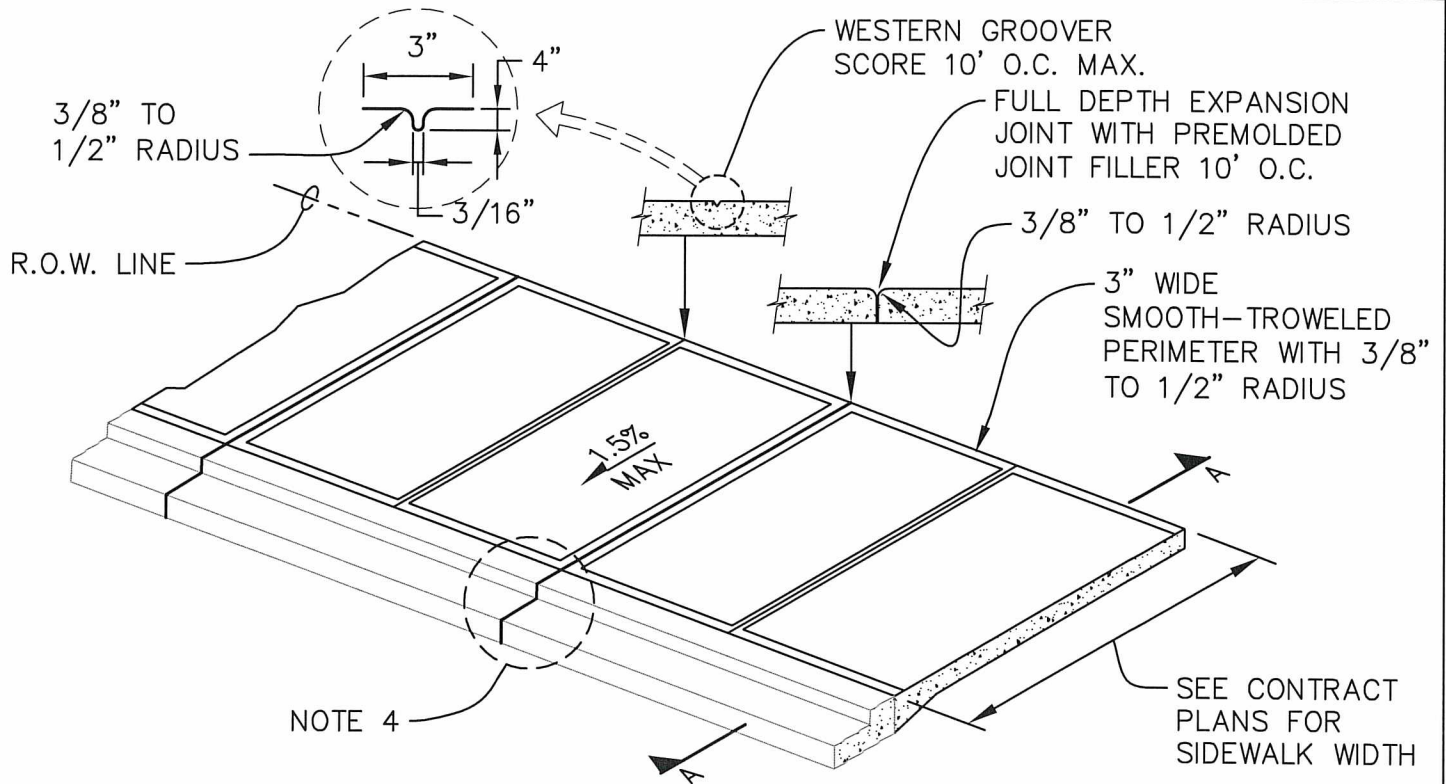
APPROVED BY CITY ENGINEER:

DATE:

8/5/2016



PERVIOUS CEMENT
CONCRETE SIDEWALK



SECTION A-A
NOT TO SCALE

NOTES:

1. PLACE CEMENT CONCRETE ON COMPACTED SUITABLE BASE, AS PER SPECIFICATION SECTION 2-06.3 AND AS APPROVED BY THE ENGINEER.
2. CEMENT CONCRETE SHALL BE CLASS 3000 PER SPECIFICATION SECTION 6-02.3.
3. INSPECTION REQUIRED FOR FORM AND SUB GRADE APPROVAL BEFORE POURING CONCRETE.
4. MATCH EXPANSION JOINTS ON SIDEWALK WITH EXPANSION JOINTS ON CURB OR AT 10' O.C.

APPROVED BY CITY ENGINEER:

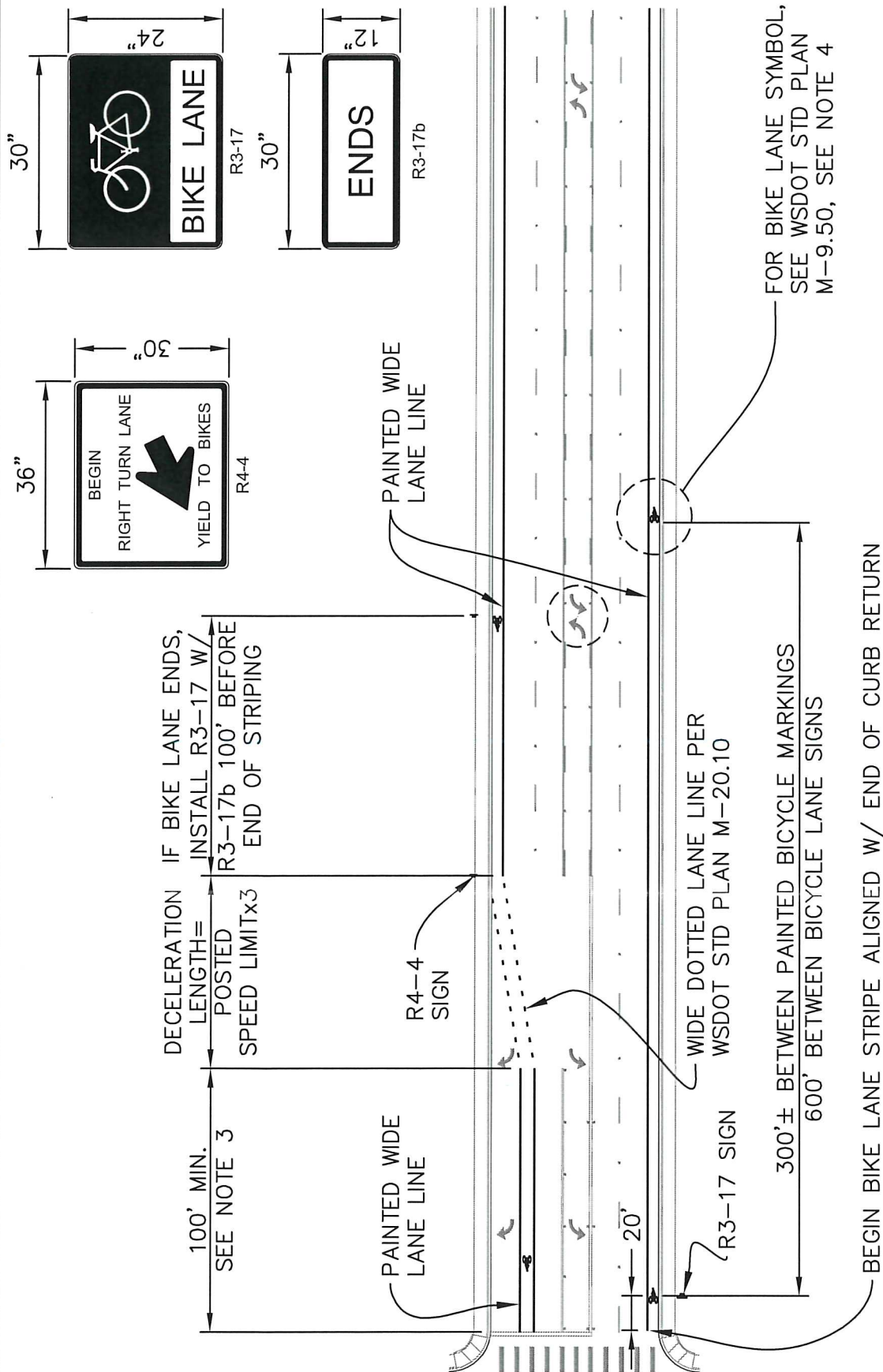
DATE:



CEMENT CONCRETE SIDEWALK
WITHOUT LANDSCAPE STRIP

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-15.1



NOTES:

1. BIKE LANE WIDTH SHALL BE 6' WIDE, MINIMUM.
2. RIGHT TURN LANE LENGTH SHALL BE DETERMINED BY THE 95TH PERCENTILE OF THE QUEUE LENGTH VALUE.
3. LENGTH SHORTER THAN 100' MAY BE JUSTIFIED WITH TRAFFIC STUDIES.
4. BICYCLE RIDER SYMBOL DESIGNATING BICYCLE LANE SHALL BE INSTALLED WITH WHITE PAINT.

APPROVED BY CITY ENGINEER:

DATE:

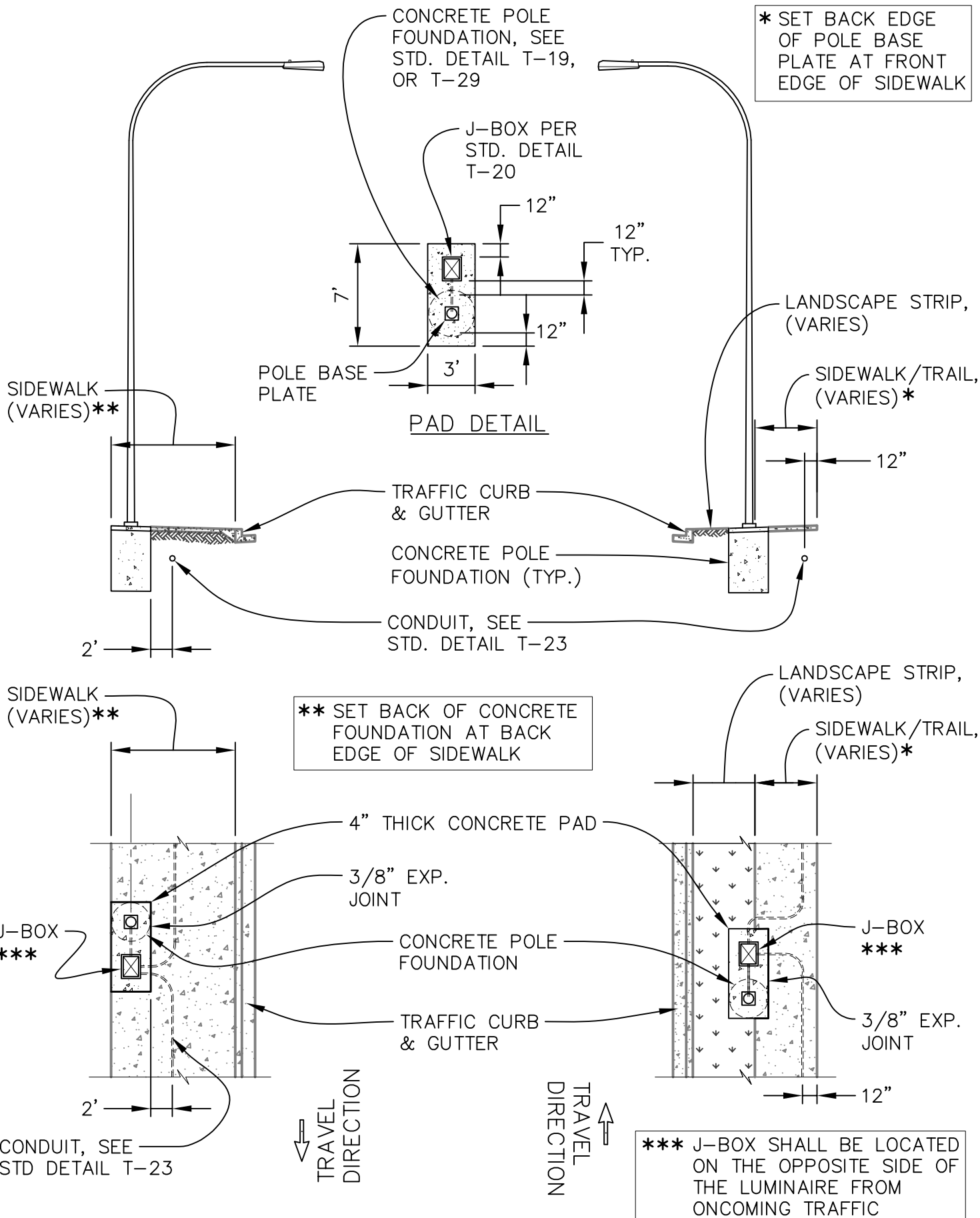


BICYCLE LANE MARKINGS

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-17.2

Plotted by: Craig Dobyns on 12/09/20 File location: M:\Construction Standard Details\Current Working DWG\Traffic\STDTEL-T-18.3



APPROVED BY CITY ENGINEER:

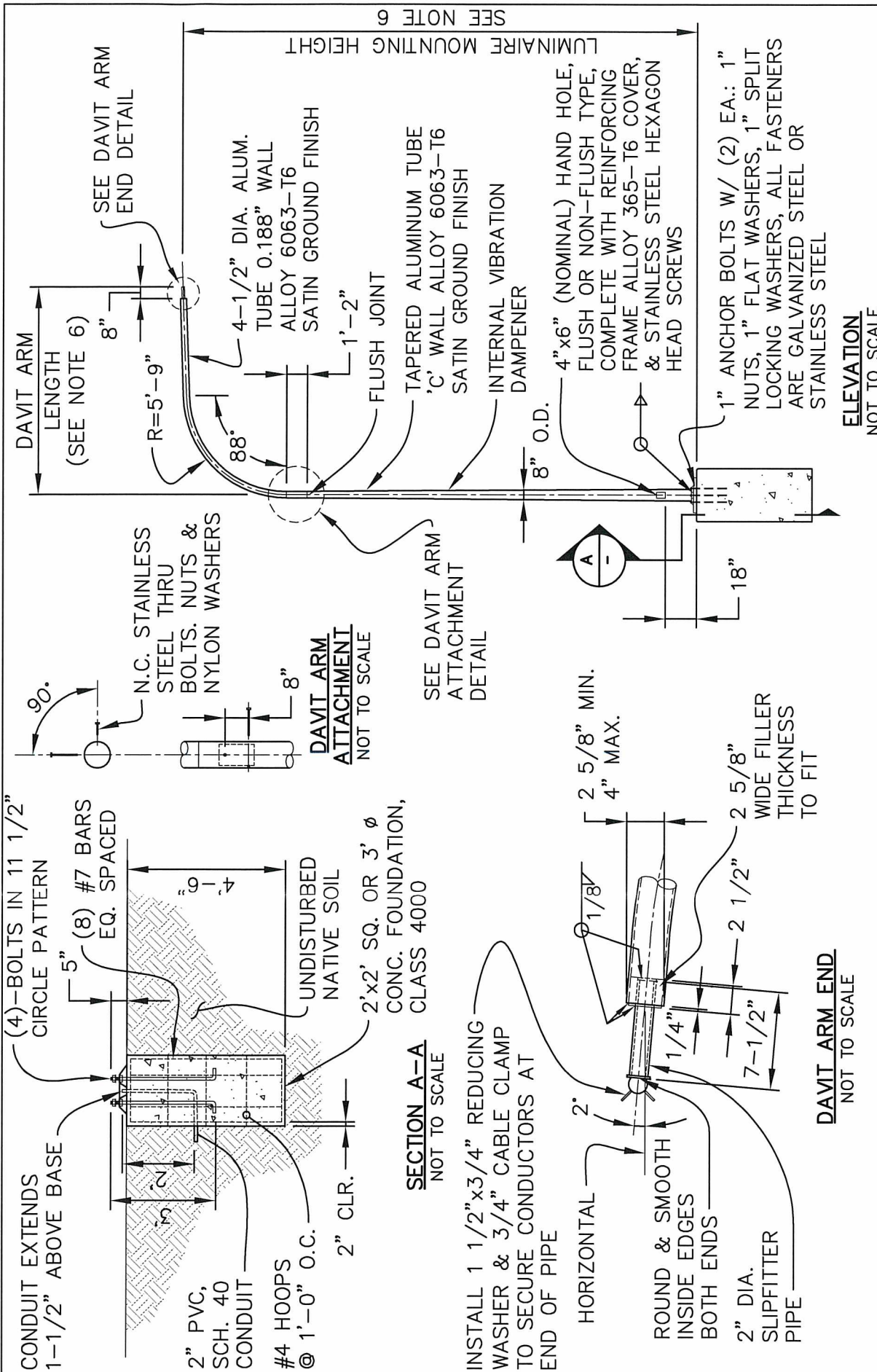
DATE:
01/05/2021



LUMINAIRE AND CONDUIT
LAYOUT DETAIL

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-18.3



ELEVATION
NOT TO SCALE

NOTES:

- POLE ASSEMBLIES DESIGNED TO SUPPORT MAXIMUM LUMINAIRE SIZE OF 1.5 SQ. FT. E.P.A. AND 60 LBS. IN A 100 MPH ISOTACH/130 MPH GUST VELOCITY WIND.
- 4043 FILLER WIRE USED FOR WELDING.
- ONLY THE BASE FLANGE WELDS ARE HEAT TREATED.
- BASE FLANGE SHALL ACCOMMODATE 11" TO 12" BOLT CIRCLE.
- 1"-8NC STEEL ANCHOR BOLT ASTM A576, AISI GRADE 1021-1046, 50,000 PSI=MIN. YIELD MEAN DIA. OF ROD STOCK 0.908± 0.011", OUT OF ROUND TOLERANCE: ± 0.012" ROLLED OR CUT THREADS PER A307, CLASS 2A, TOP 10" GALV. PER ASTM A153 COMPLETE WITH (8) 1" 8NC GALV. STL. HEX NUTS & (8) 1" GALV. STL. FLAT WASHERS.
- SEE DESIGN STANDARDS TABLE 10-8.
- SEE STD. DETAIL T-18 FOR POLE, CONDUIT, AND FOUNDATION PLACEMENT.

APPROVED BY CITY ENGINEER:

DATE:

6/29/2018



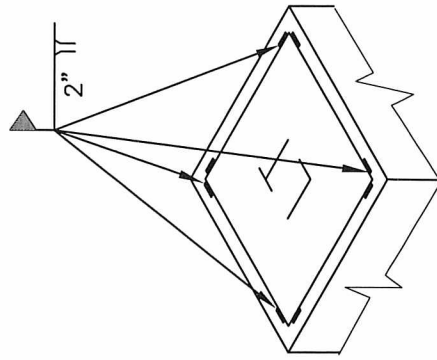
LUMINAIRE
POLE

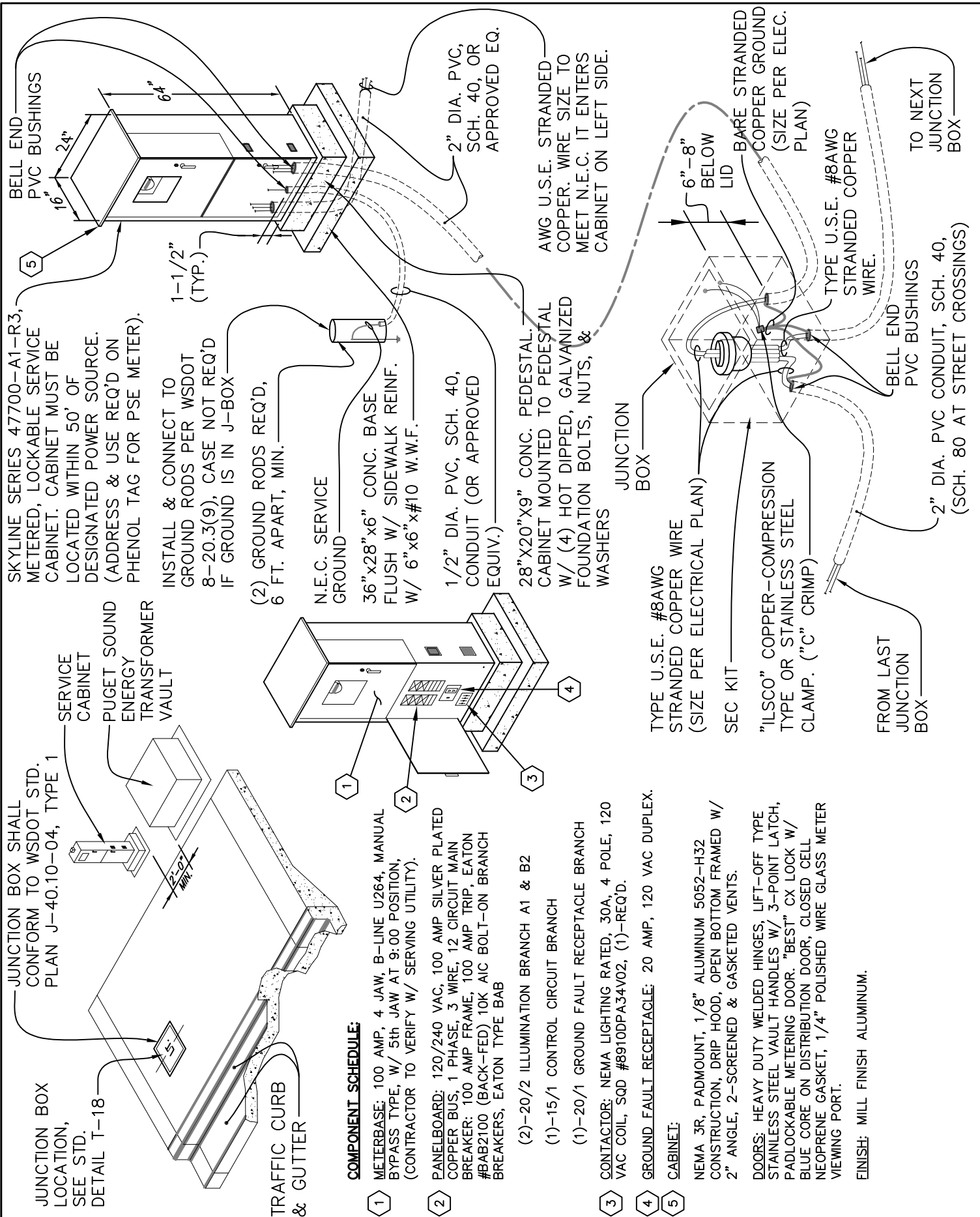
COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL:

T-19.3

TO NEXT -
JUNCTION
BOX



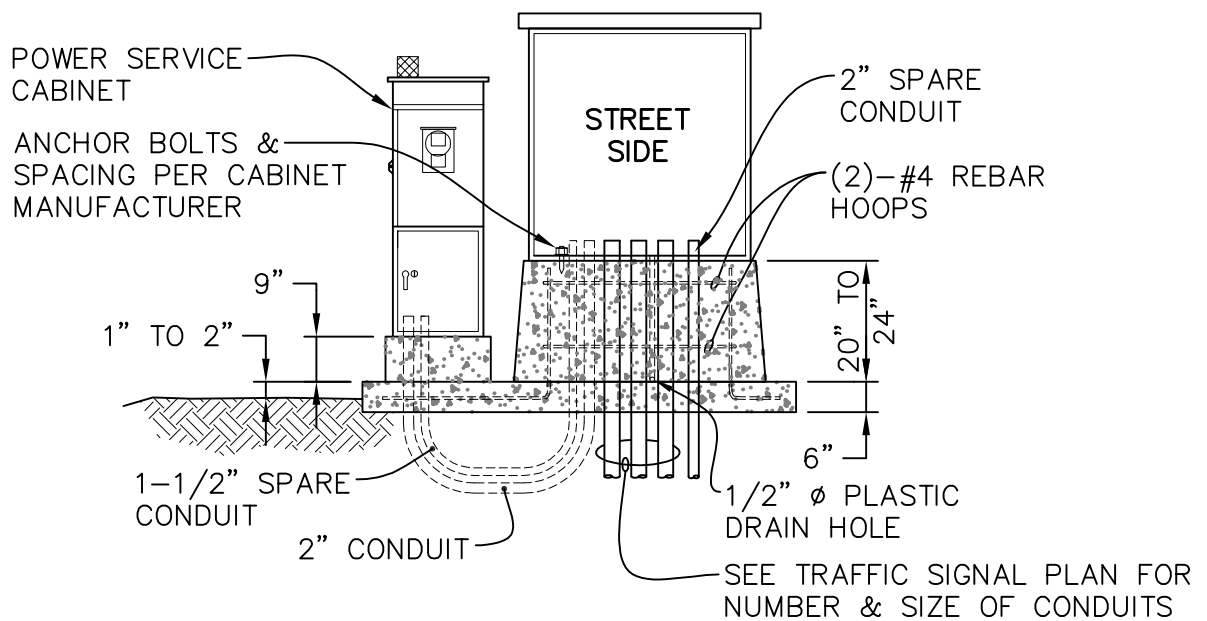


APPROVED BY CITY ENGINEER:

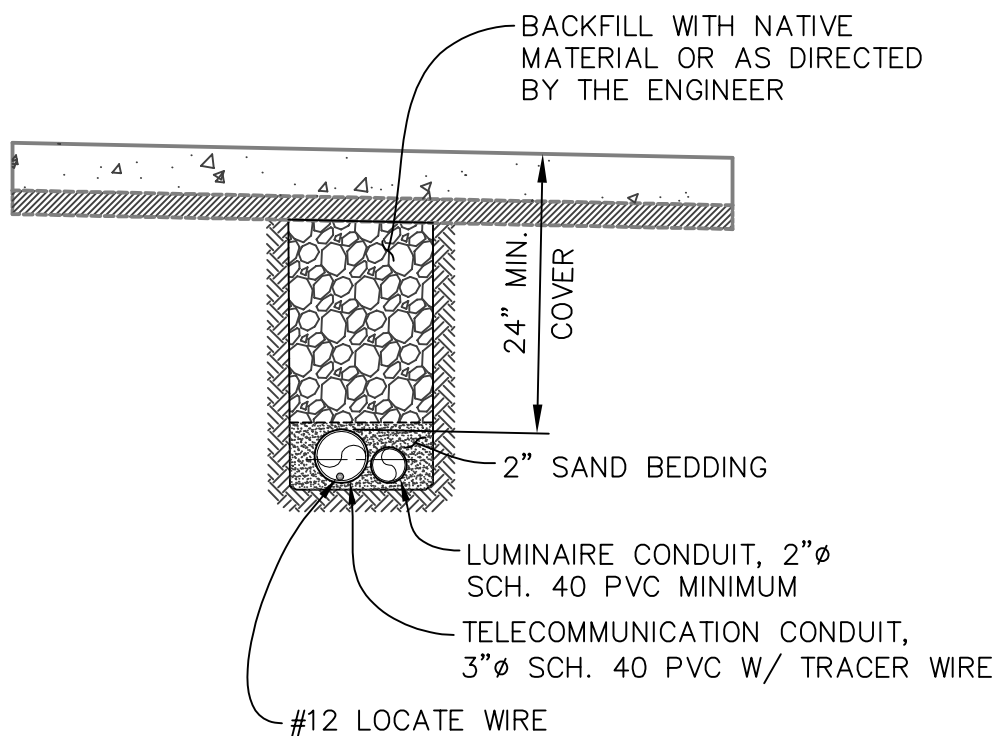
DATE:
01/05/2021



POWER SERVICE CABINET
DETAIL



STANDARD DETAIL: T-22.3



NOTES:

1. PULL STRING SHALL BE INSTALLED IN ALL SPARE CONDUIT.
2. SEE STD. DETAIL T-18 FOR CONDUIT PLACEMENT.

APPROVED BY CITY ENGINEER:

DATE:
01/05/2021



TELECOMMUNICATION AND
LUMINAIRE ELECTRICAL TRENCH

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-23.3

(2) TAMPER PROOF
DRIVE RIVETS OR
EQUAL AT 90° FROM
EACH OTHER

10" Ø SONO TUBE
OR 3/8" EXP.
JOINT IN SIDEWALK
APPLICATIONS

18" LONG SLEEVE
2-1/4" SQ.

24" LONG ANCHOR
2" SQ.

SIGN POST,
1 3/4" SQ.

CONCRETE
SIDEWALK OR
LANDSCAPE STRIP

CONCRETE

SEE NOTE 4

24" MIN

NOTES:

1. ALL TUBING MATERIAL SHALL BE "UNISTRUT TELESAR" TYPE GALVANIZED STEEL (ASTM A570 GRADE 33) OR ENGINEER APPROVED EQUIVALENT.
2. SIDEWALKS AND PAVED AREAS SHALL BE CORE DRILLED BEFORE SIGN INSTALLATION.
3. SIGNS SHALL HAVE A MIN. HEIGHT OF 7 FT. FROM THE LOWER EDGE OF THE SIGN TO SIDEWALK GRADE, AND A 2 FT. LATERAL OFFSET FROM THE FACE OF CURB TO THE NEAR EDGE OF SIGN. SIGN LOCATION SHALL BE AS SHOWN ON PLANS AND PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D).
4. WRAP ANCHOR TUBING WITH TAPE BEFORE PLACING IN CONCRETE.
5. DEMONSTRATE SIGN POST IS REMOVABLE BEFORE RIVETING.

APPROVED BY CITY ENGINEER:

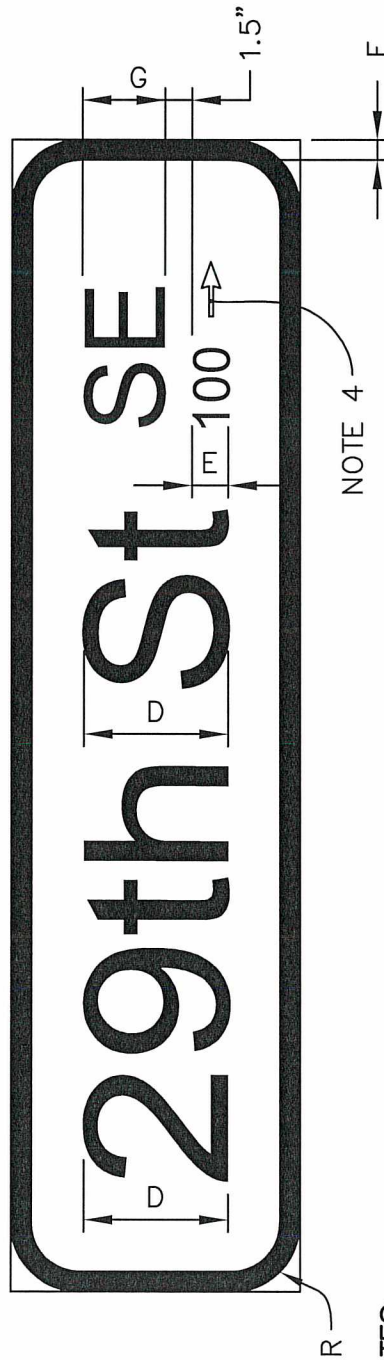
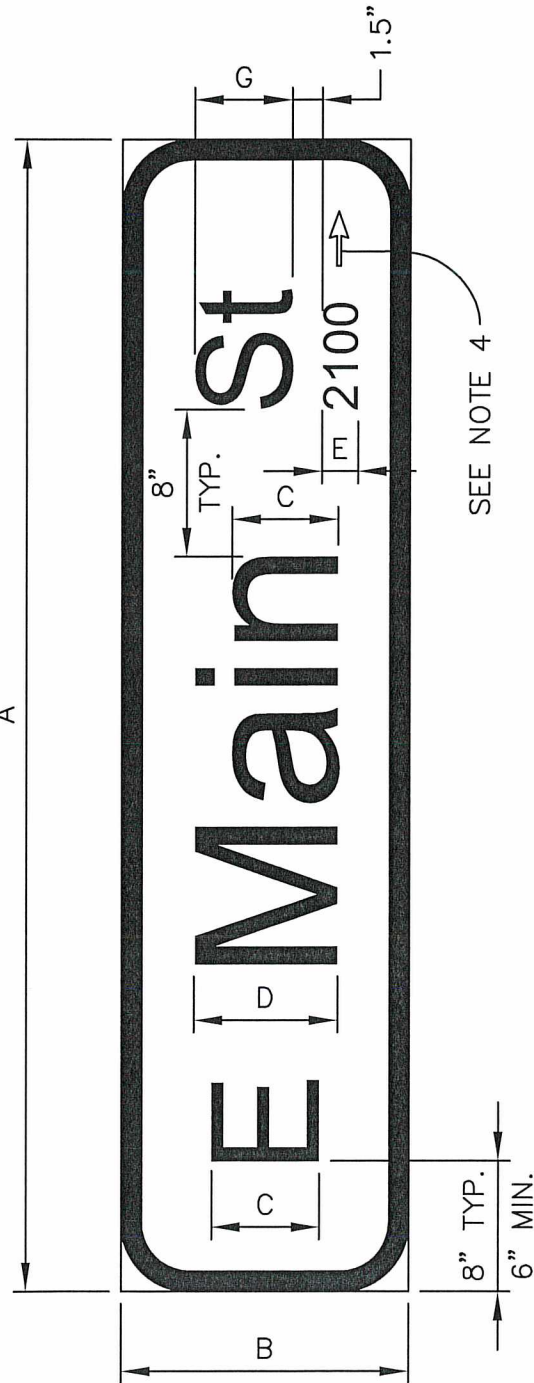
DATE:

CITY OF
AUBURN
WASHINGTON

TYPICAL SIGN POST
INSTALLATION

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-24.2



NOTES:

1. SIGN BLADES SHALL BE 0.125" THICK TEMPERED ALUMINUM ALLOY.
2. BACKGROUND FOR STREET NAME SIGNS SHALL BE GREEN COLOR, ENGINEERING GRADE REFLECTIVE SHEETING.
3. ALL LETTERING AND 1-1/4" BORDER FOR STREET NAME SIGNS SHALL BE WHITE COLOR, REFLECTIVE HIGH INTENSITY GRADE SHEETING.
4. ARROW ON THE RIGHT SIDE OF THE BLOCK NUMBER INDICATES AN INCREASING BLOCK NUMBER IN THE ARROW DIRECTION.
5. FOR GUIDANCE ON LETTERING AND NUMERAL WIDTHS AND SPACING, SEE WSDOT "SIGN FABRICATION MANUAL" APPENDIX C.
6. ENGINEER APPROVAL OF SIGN PROOF(S) REQUIRED BEFORE FABRICATION.

SIGN STANDARDS	
DIMENSION	INCHES
A	VARIES
B	16
C	6
D	8
E	2
F	1 1/4
G	4 1/2
R	3

APPROVED BY CITY ENGINEER:

DATE:

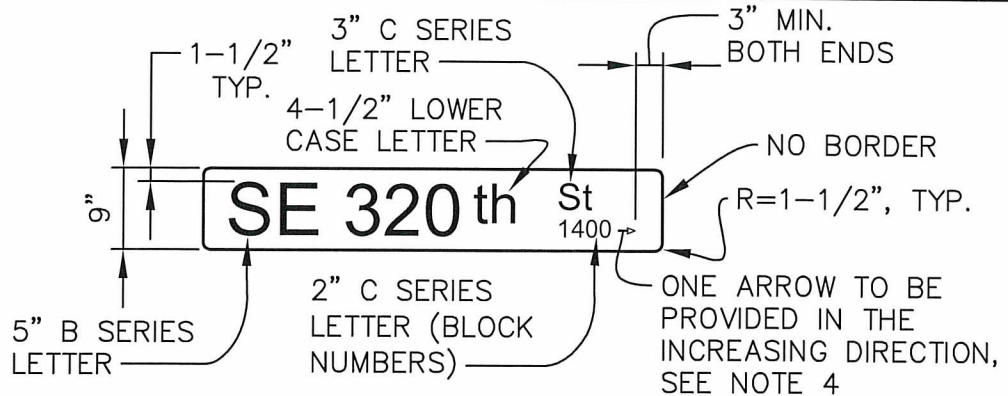
Paul Sob

8/5/2016

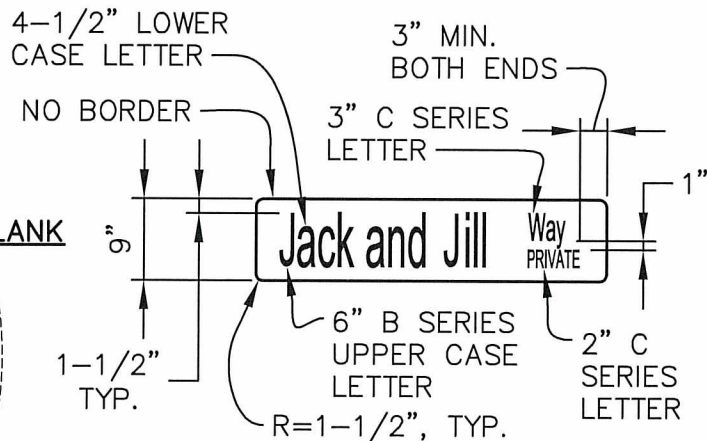


MAST ARM MOUNTED,
STREET NAME SIGN DETAIL

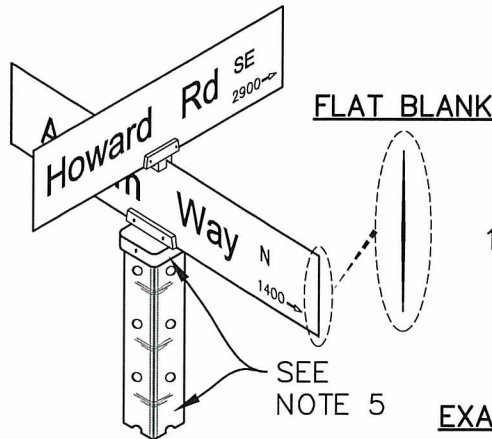
STREET NAME STANDARD	
NAME	ABBREVIATION
AVENUE	Ave
BOULEVARD	Blvd
COURT	Ct
DRIVE	Dr
LANE	Ln
LOOP	Lp
PARKWAY	Pkwy
PLACE	Pl
ROAD	Rd
STREET	St
STREET SOUTHEAST	St SE
WAY	Way



PUBLIC ROAD SIGN

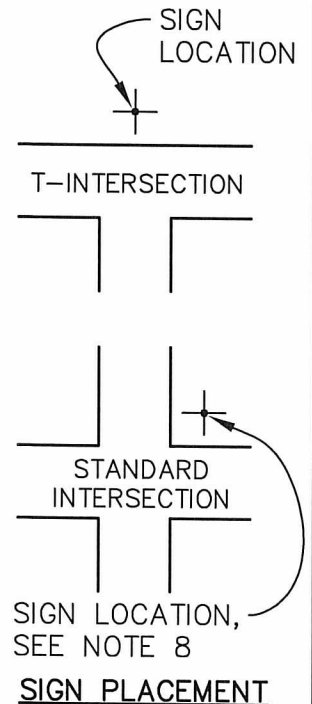


PRIVATE ROAD SIGN



EXAMPLES:

124 th Ave SE 31600	M St SE 20	Howard Rd SE 2900	Auburn Way N 2900
W Main St 25	37 th St SE 1400	Howard Rd SE 2900	Auburn Way N 2900
		NORTH VIEW	EAST VIEW
		SOUTH VIEW	WEST VIEW

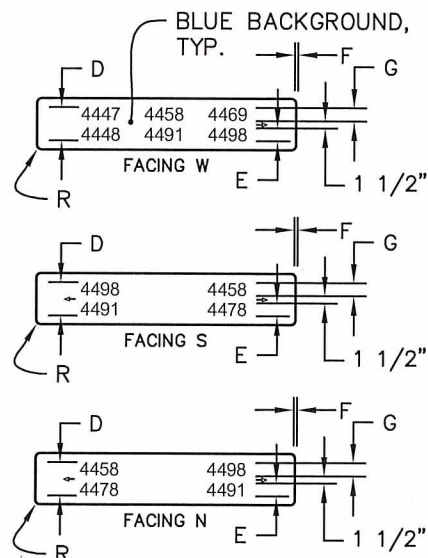


SIGN PLACEMENT

NOTES:

- NAME PLATE SHALL BE 9" WIDE X VARIABLE LENGTH OF FLAT BLANK, 0.080 GAUGE ALUMINUM, TREATED WITH ALODINE 1200 CONVERSION COATING, ZUMAR OR APPROVED EQUIVALENT.
- BACKGROUND FOR PUBLIC ROAD STREET NAME SIGNS SHALL BE GREEN COLOR, ENGINEERING GRADE REFLECTIVE SHEETING.
- BACKGROUND FOR PRIVATE ROAD STREET NAME SIGNS SHALL BE BLUE COLOR, ENGINEERING GRADE REFLECTIVE SHEETING.
- ALL LETTERING FOR STREET NAME SIGNS SHALL BE WHITE COLOR, REFLECTIVE HIGH INTENSITY GRADE SHEETING.
- POST INSTALLATION SHALL CONFORM TO REQUIREMENTS SET BY STANDARD DETAIL T-24.
- HARDWARE SHALL BE ZUMAR STYLE 850 LONG OR APPROVED EQUIVALENT.
- MOUNTING HEIGHT SHALL BE 8'-0".
- WHEN AN INTERSECTION IS STOP SIGN CONTROLLED, THE STREET NAME SIGN SHALL BE PLACED ON THE SAME POST AND ABOVE THE STOP SIGN.
- ENGINEER APPROVAL OF SIGN PROOF(S) SHALL BE REQUIRED BEFORE FABRICATION.

PRIVATE TRACT SIGNS:



PRIVATE TRACT SIGN STANDARDS	
DIMENSION	INCHES
A	VARIES
B	16
C	6
D	8
E	2
F	1 1/4
G	4 1/2
R	3

APPROVED BY CITY ENGINEER:

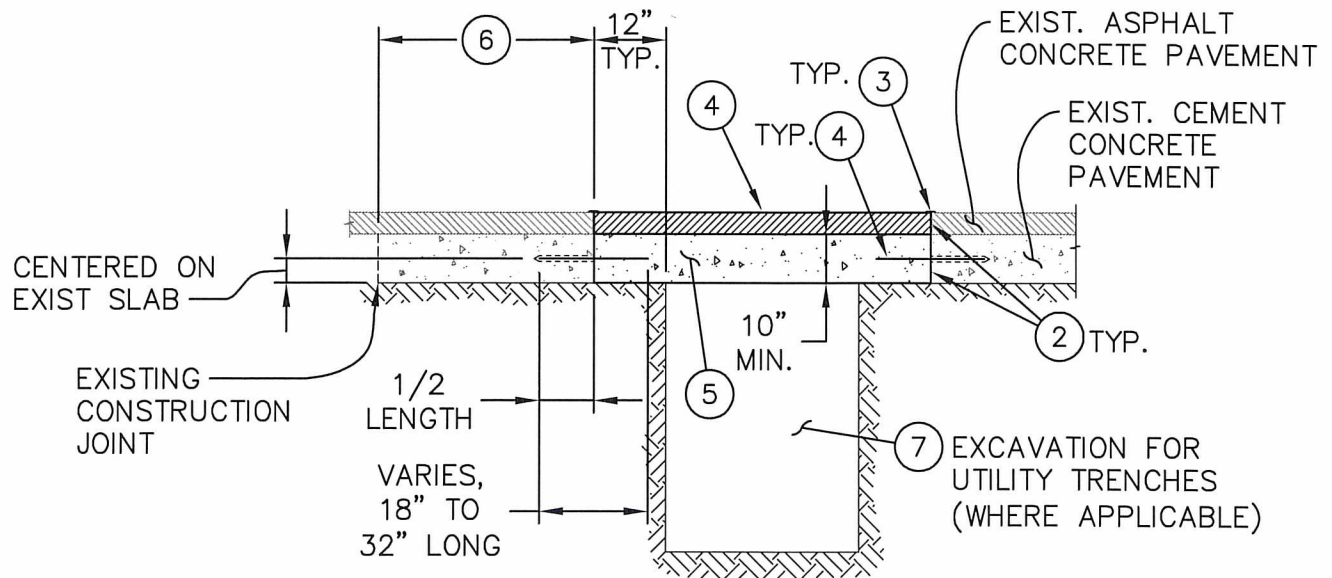
DATE:



POST MOUNTED, STREET
NAME SIGN DETAIL

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-26.2



NOTES:

- ① FOR TRANSVERSE JOINTS CONSTRUCTION, THE DOWEL BARS SHALL BE 1 1/2" DIA. x 18" LONG AND INSTALLED AT 12" ON CENTER. FOR LONGITUDINAL JOINTS CONSTRUCTION, TIE BARS SHALL BE #5 x 32" LONG AND INSTALLED AT 36" ON CENTER. DRILL HOLES TO EXISTING ADJACENT CONCRETE PANELS AND PARALLEL TO EXISTING GRADE. HOLES SHALL BE BLOWN CLEAN WITH COMPRESSED AIR PRIOR TO APPLYING EPOXY RESIN INTO THE HOLES. THEN INSERT EPOXY RESIN COATED BARS IN THE HOLES SUCH THAT THE BACK OF THE HOLES ARE FILLED FIRST.
- ② APPLY HOT POURED ELASTIC TYPE SEALANT TO ENTIRE EDGE AND FULL DEPTH OF THE JOINTS BEFORE PAVING.
- ③ APPLY SURFACE SEAL WITH ASPHALT CEMENT AR-4000 AT MATCHLINES.
- ④ WHERE REPLACEMENT OF EXISTING ASPHALT CONCRETE PAVEMENT IS REQUIRED, APPLY NEW HMA CL. 1/2" TO MATCH EXISTING THICKNESS.
- ⑤ MATCH THICKNESS OF EXISTING CEMENT CONCRETE PAVEMENT, BUT IN NO CASE SHALL IT BE LESS THAN 10". CEMENT CONCRETE SHALL BE CL. 4000 WITH 5% AIR ENTRAINMENT. TRAFFIC SHALL BE KEPT OFF NEW PAVEMENT FOR 7 DAYS OR UNTIL DESIGN STRENGTH IS ACHIEVED, WHICHEVER COMES FIRST.
- ⑥ WHENEVER A REMAINING CONCRETE PANEL IS 3' WIDE OR LESS IN ANY DIRECTION FROM EXISTING CONSTRUCTION JOINT TO NEW CONSTRUCTION JOINT, IT SHALL BE REMOVED AND REPLACED AS PART OF THE NEW PANEL.
- ⑦ BEDDING/BACKFILL SHALL BE PER STANDARD DETAIL T-01.

APPROVED BY CITY ENGINEER:

DATE:



REPAIR OF EXISTING CEMENT
CONCRETE PANEL IN ROADWAY

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-27.1

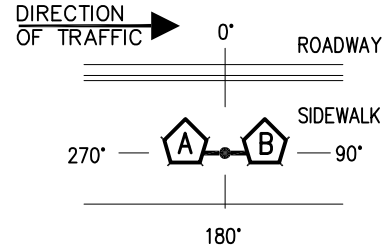
20' NOMINAL POLE HEIGHT

14'-0" LUMINAIRE MOUNT HEIGHT

11'-0" TO CENTER OF FLOWER BASKET SUPPORT ARM

ORIENTATION LOCATIONS:

- LUMINAIRES SHALL BE MOUNTED AT 90° AND 270°
- BANNER SUPPORT ARMS SHALL BE MOUNTED AT 0°
- FLOWER BASKET SUPPORT ARMS SHALL BE MOUNTED AT 90° & 270°
- RECEPTACLES SHALL BE MOUNTED AT 180°
- HANDHOLES SHALL BE MOUNTED AT 90°
- STREET NAME SIGNS SHALL BE MOUNTED AT 0° & 90°
- STOP SIGN SHALL BE MOUNTED AT 270°



POLE TOP WITH 7-PIN PCR7 RECEPTACLE W/ VANTAGEPOINT WIRELESS CONTROL MODULE

18" TYP.

17" TYP.

17" DIA TYP.

24" TYP.

(2) 17" DIA. ERA BELL, 5200K LED ROTATABLE OPTICAL SYSTEM W/ LABEL TO SHOW ORIENTATION OF LIGHT PATTERN, FLAT LENS LUMINAIRE BY KIM LIGHTING OR APPROVED EQ.

(2) 3/8" EYE BOLTS

(2) BP1-5-24-A-P/D1 CLAMP STYLE FLOWER BASKET 100 LB. SUPPORT ARMS BY CYCLONE LIGHTING OR APPROVED EQ.

KRS20-5120 5" SMOOTH ROUND STRAIGHT STEEL 11 GA. POLE BY KIM LIGHTING OR APPROVED EQ.

APPLY BLACK SILICONE SEALANT AT INSTALLATION

HANDHOLE, MOUNTED 90°

HBC1-5 DECORATIVE ALUMINUM CLAMSHELL BASE COVER BY KIM LIGHTING OR APPROVED EQ.

24"

FOR FOUNDATION INSTALLATION, SEE STD. DETAIL T-28B

APPROVED BY CITY ENGINEER:

DATE: 01/05/2021



DOWNTOWN PEDESTRIAN POLE MOUNT LIGHTING STANDARD

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-28.3

(RECEPTACLE WIRING
& FLEXIBLE CONDUIT
NOT SHOWN)

BUSHING FOR RACEWAY
SHALL BE PROVIDED BY
MANUFACTURER

FACTORY
CONDUCTORS

WELDED
J-HOOK

LOCKABLE DIE
CAST NEMA 3R
WEATHERPROOF
COVER

RECEPTACLE, FOR LOCATION,
SEE STD. DETAIL T-28

WEATHERPROOF
"IN-USE"
BUBBLE COVER

HOSPITAL GRADE
WR DUPLEX GFI,
RECEPTACLE 20
AMP, 120V

RECEPTACLE W/
CAST ALUMINUM
FRAME

(2)-#12
(RECEPTACLE)

POLE RECEPTACLE

NOT TO SCALE

LUMINAIRE WIRING

NOT TO SCALE

POLE AND
BRACKET WIRE

FOR ILLUMINATION QUICK
DISCONNECT DETAILS, SEE
STD. DETAIL T-20

GROUND LUG

BARE COPPER
STRANDED
GROUND (#8)

RECEPTACLE QUICK
DISCONNECT, SEC MODEL
1791, OR APPROVED
EQUIVALENT

HANDHOLE, SEE STD.
DETAIL T-20

RECEPTACLE QUICK
DISCONNECT, SEC MODEL
1791-DP (DOUBLE PIN),
OR APPROVED EQUIVALENT

FOR ILLUMINATION
QUICK DISCONNECT
DETAILS SEE STD.
DETAIL T-20

STREET LIGHT
JUNCTION BOX, SEE
STD. DETAIL T-20

SIDEWALK

(2)-#8 OR #10
(RECEPTACLE)

6"-8" BELOW
LID, TYP.

FOR FOUNDATION,
REFER TO STD.
DETAIL T-28B

24" MIN
TYP.

GROUND CLAMP,
SEE STD. DETAIL
T-20

SEE ILLUMINATION
PLANS FOR CONDUIT
SIZE & WIRING

INSTALL CONDUIT
SWEEPS AS NEEDED TO
AVOID UNDERGROUND
UTILITY CONFLICTS

TYPICAL LUMINAIRE/ JUNCTION BOX WIRING

NOT TO SCALE

(3)-#8 (ILL, ONE IS
GROUND) (2)-#8 OR
#10 (RECEPTACLE)

* REFER TO STD. DETAIL
T-20 FOR INFORMATION
NOT SHOWN

* SPARE/EMPTY CONDUITS
SHALL CONTAIN
DETECTABLE PULL TAPE

APPROVED BY CITY ENGINEER:

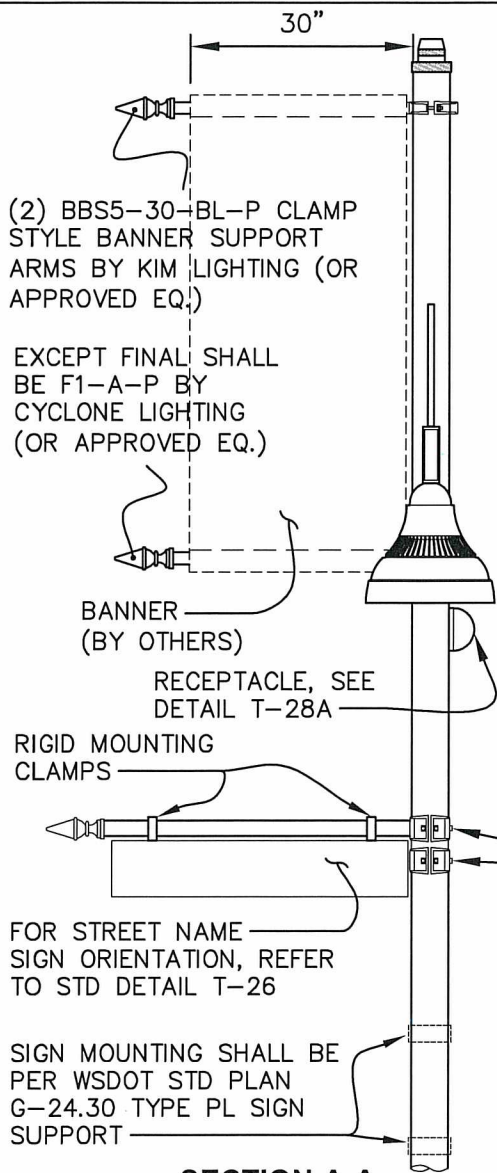
DATE:



DOWNTOWN PEDESTRIAN
POLE MOUNT LIGHTING STANDARD

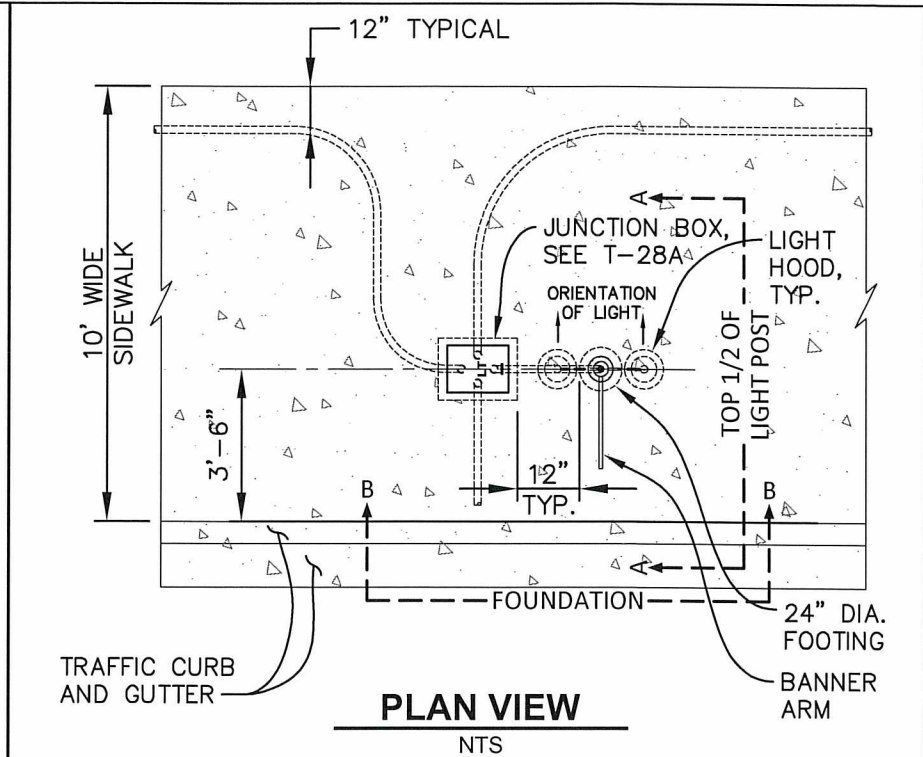
PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-28A.3



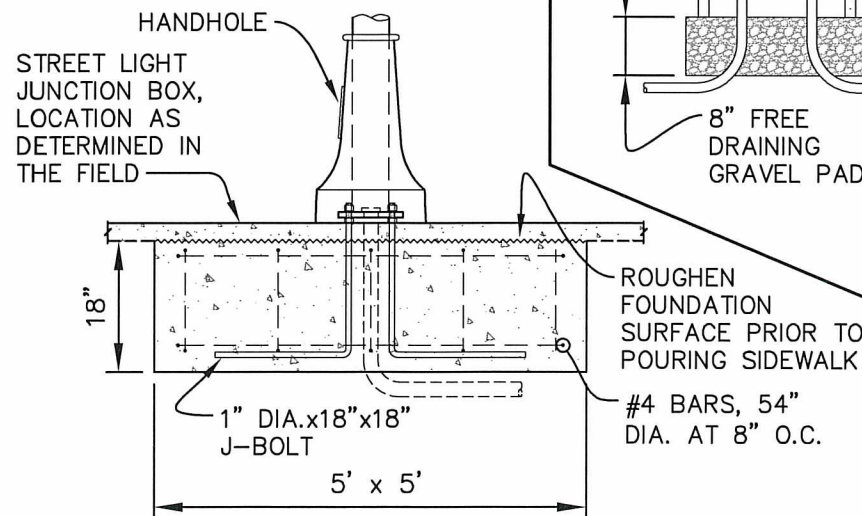
SECTION A-A

NTS



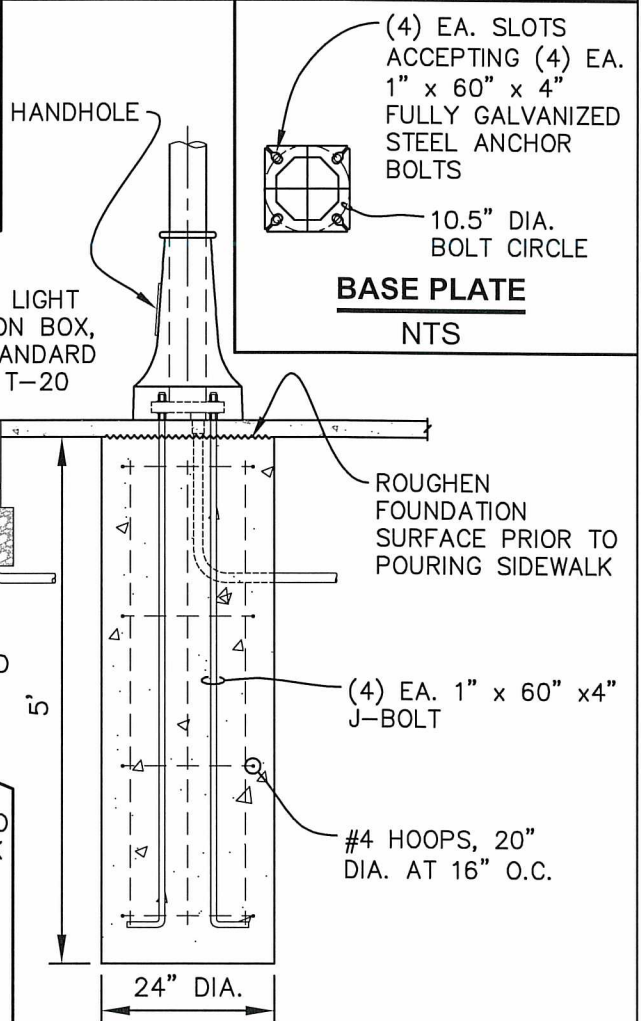
PLAN VIEW

NTS



ALTERNATE BASE (SPREAD FOOTING)

NTS



BASE PLATE

NTS

SECTION B-B

NTS

APPROVED BY CITY ENGINEER:

DATE:

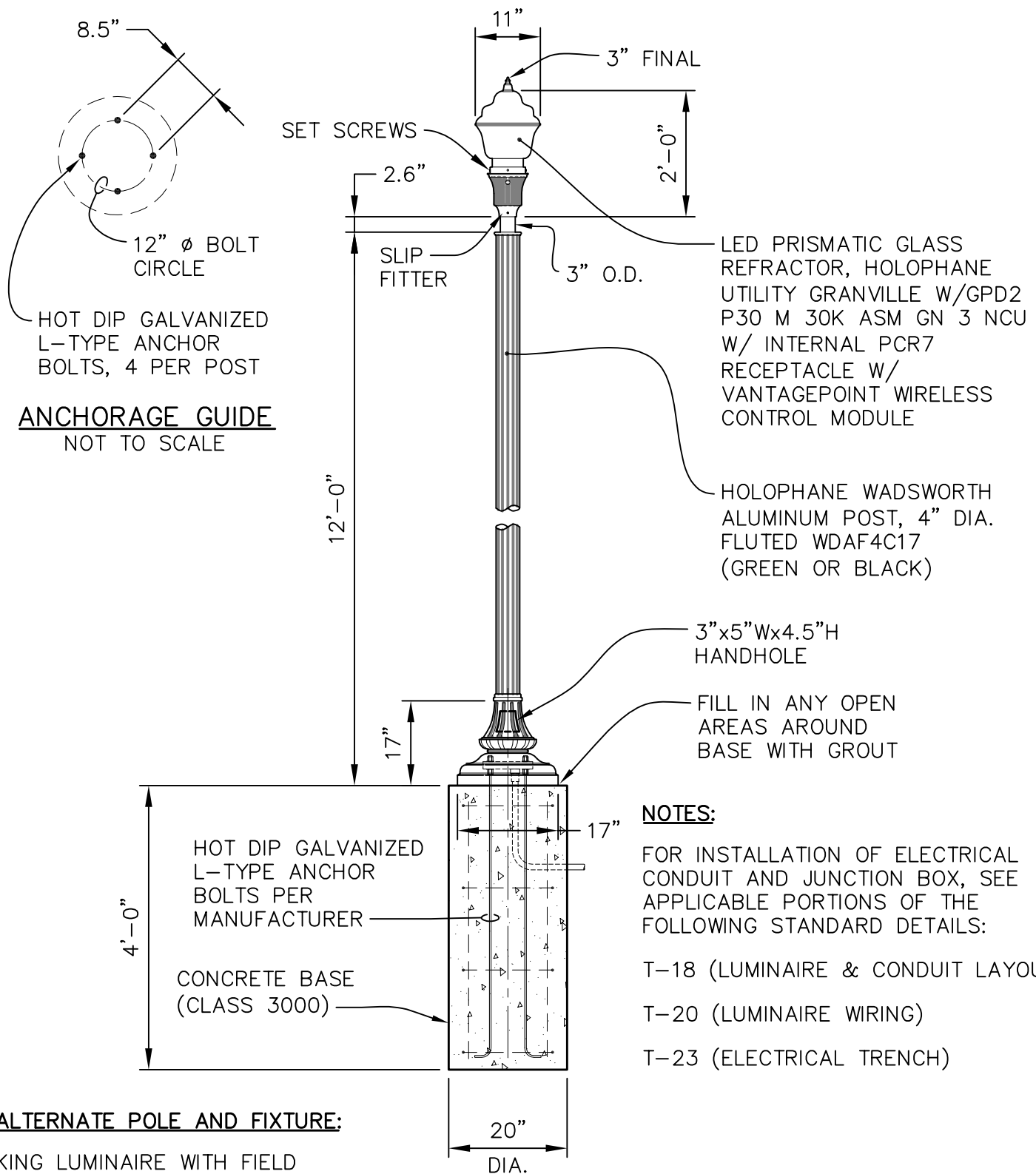
CITY OF
AUBURN
WASHINGTON

DOWNTOWN PEDESTRIAN
POLE MOUNT LIGHTING STANDARD

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-28B.2

Plotted by: Craig Dobyns on 12/10/2020 File location: M:\Construction Standard Details\Current Working DWG\Traffic\STDELT-T-29.4



NOTES:

FOR INSTALLATION OF ELECTRICAL CONDUIT AND JUNCTION BOX, SEE APPLICABLE PORTIONS OF THE FOLLOWING STANDARD DETAILS:

T-18 (LUMINAIRE & CONDUIT LAYOUT)

T-20 (LUMINAIRE WIRING)

T-23 (ELECTRICAL TRENCH)

ALTERNATE POLE AND FIXTURE:

KING LUMINAIRE WITH FIELD SWITCHABLE DIMABLE DRIVER:
K445R-T1GR-V-XX W/
PHOTOCELL RECEPTACLE
(SSL)-4006-120: 277-K24-3K-WS

HAPCO ARLEN LIGHT POLE:
37936-012 (GREEN OR BLACK)

ELEVATION
NOT TO SCALE

APPROVED BY CITY ENGINEER:

DATE:
01/05/2021

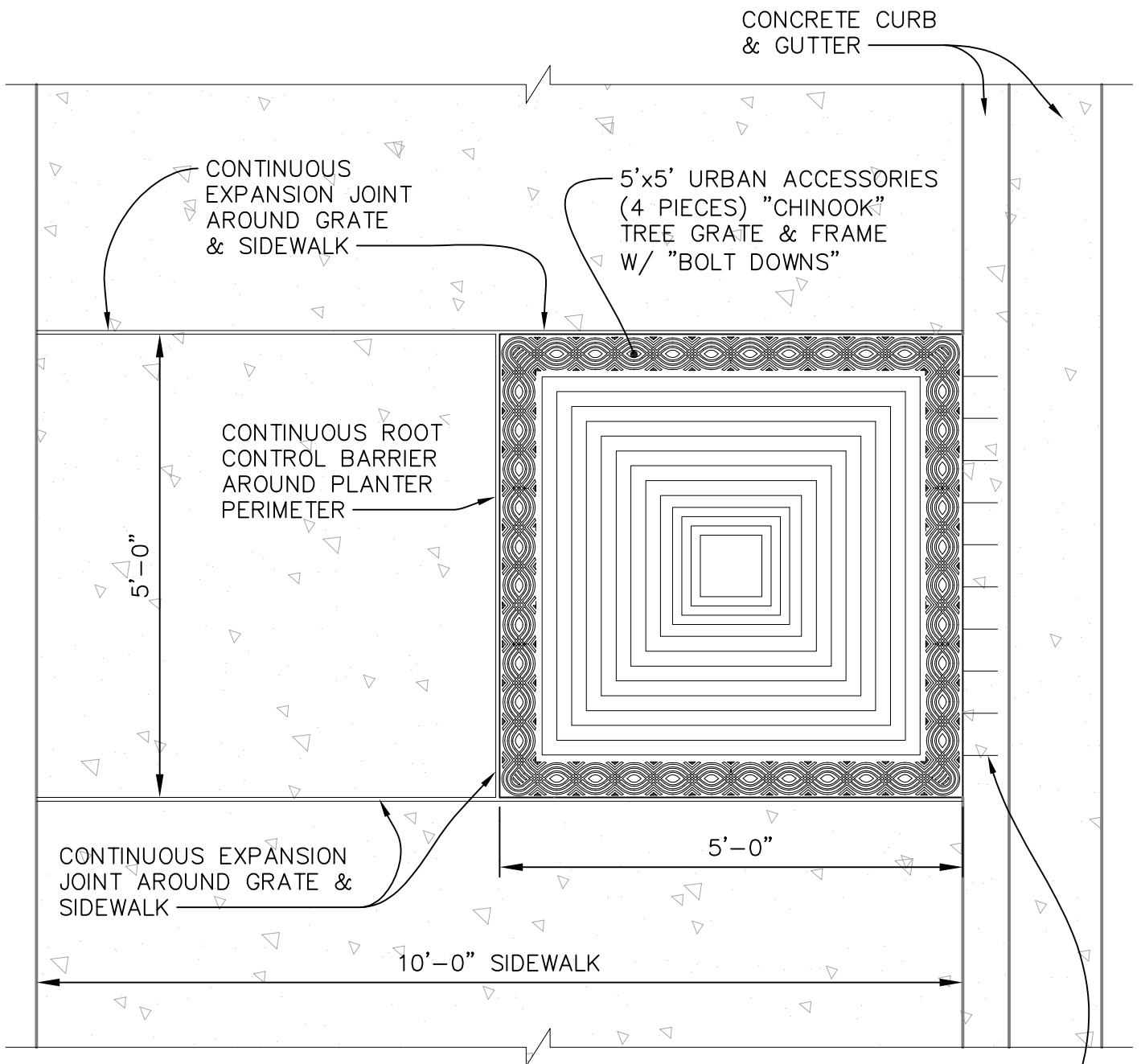


LOCAL RESIDENTIAL ORNAMENTAL
STREET LIGHTING STANDARD

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-29.4

Plotted by: Craig Dobyns on 12/16/2020 File location: M:\Construction Standard Details\Current Working DWG\Traffic\STDELT-T-30.2



MATERIAL SCHEDULE

GRATE:	
MATERIAL	GREY IRON ASTM A48 CLASS 358 OR BETTER
FINISH	NATURAL PATINA OF RAW IRON
FRAME:	
MATERIAL	MILD STEEL ASTM A36
FINISH	NATURAL PATINA OF RAW STEEL
LOAD RATING: PEDESTRIAN	

APPROVED BY CITY ENGINEER:

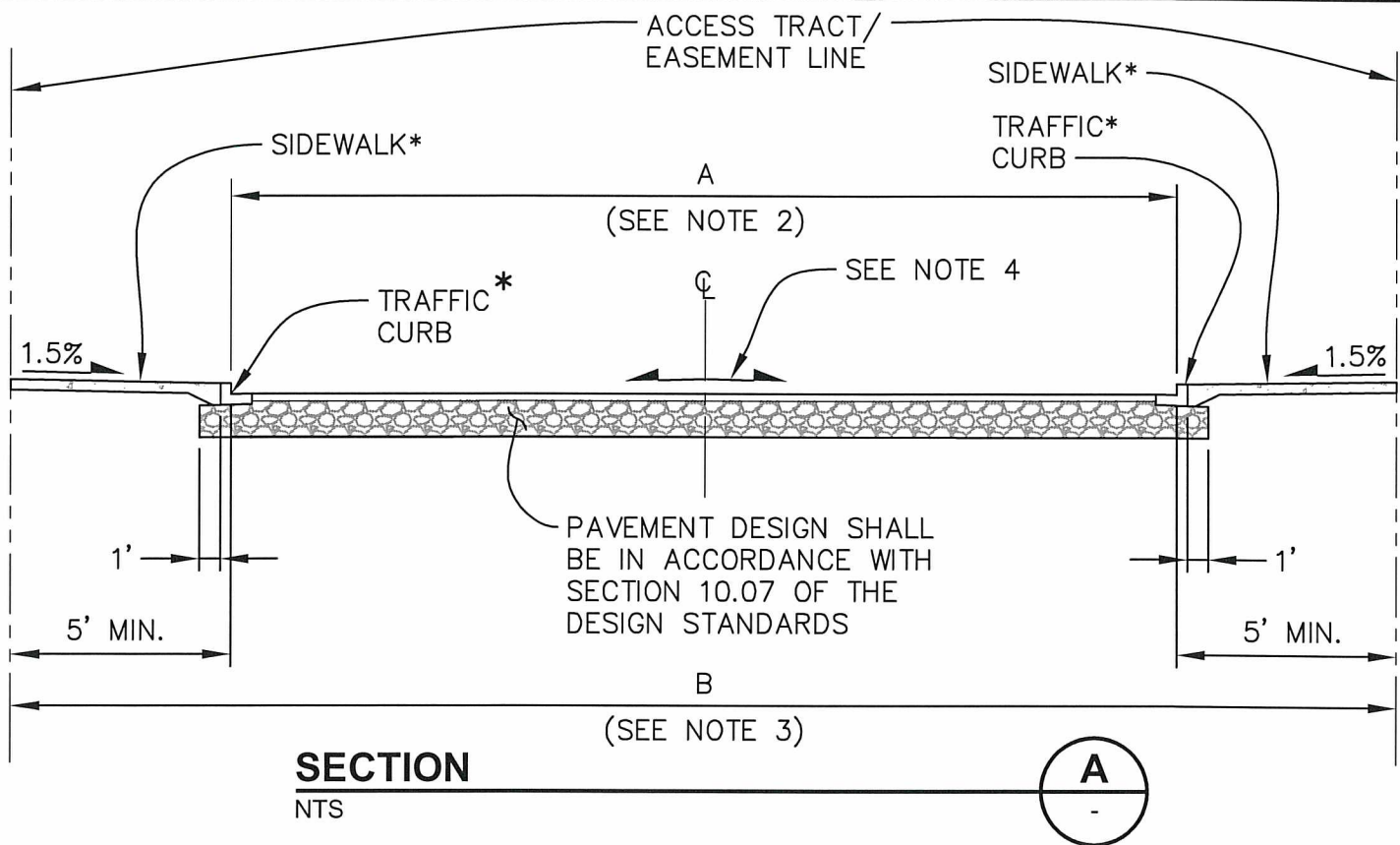
DATE:
01/05/2021



TYPICAL PLAN
FOR TREE GRATE

PUBLIC WORKS DEPARTMENT

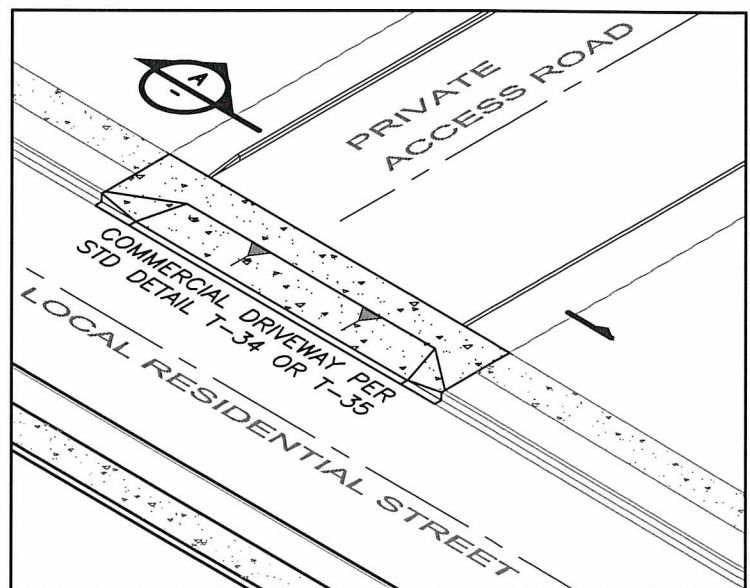
STANDARD DETAIL: T-30.2



NOTES:

- CEMENT CONCRETE TRAFFIC CURB & GUTTER SHALL BE IN ACCORDANCE W/ WSDOT STANDARD PLAN F-10.12
- PAVEMENT WIDTHS:
 A = 30' - INDUSTRIAL
 A = 24' - COMMERCIAL
 A = 20' - RESIDENTIAL (EXCLUDES ASPHALT WEDGE CURB AS APPLICABLE)
- EASEMENT/TRACT WIDTHS
 B = 41' - INDUSTRIAL
 B = 35' - COMMERCIAL
 B = 22' - RESIDENTIAL W/O SIDEWALK
 B = 26.5' - RESIDENTIAL W/ SIDEWALK
- SIDEWALK SHALL BE PER STD. DETAIL T-13, T-14, OR T-15.

* CURB AND SIDEWALK REQUIRED ON BOTH SIDES OF ACCESS ROAD/DRIVEWAY FOR COMMERCIAL AND INDUSTRIAL USE. CURB AND SIDEWALK REQ'D ON ONE SIDE OF ACCESS ROAD/DRIVEWAY FOR RESIDENTIAL (3 OR MORE UNITS). CURB AND SIDEWALK MAY BE OMITTED WHERE ACCESS ROAD/DRIVEWAY SERVES 2 OR LESS RESIDENTIAL UNITS.



ISOMETRIC
NTS

APPROVED BY CITY ENGINEER:

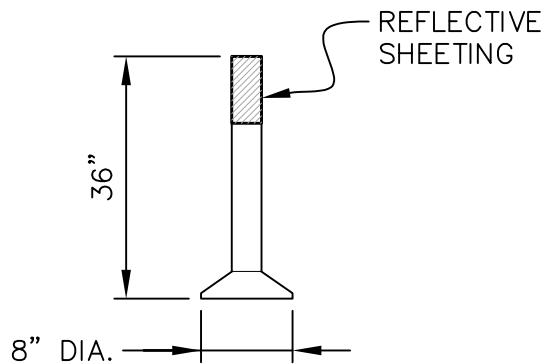
DATE:



PRIVATE ACCESS ROAD
/ SHARED DRIVEWAY

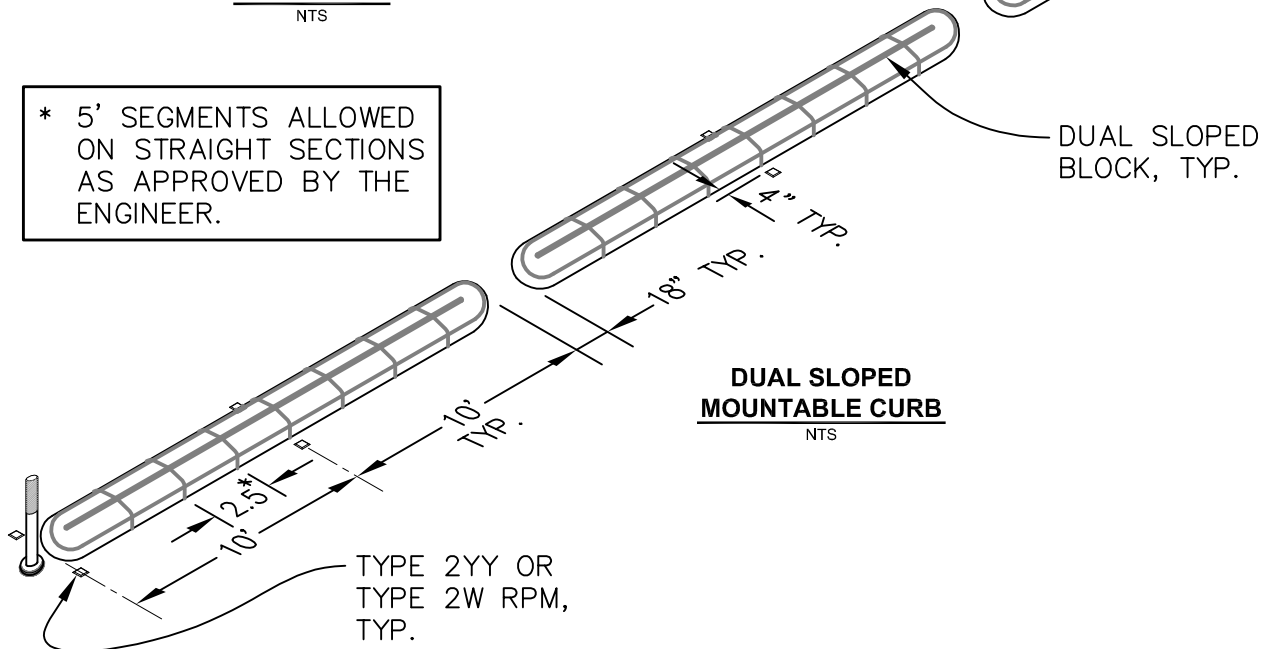
PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-31.4



DELINEATOR
NTS

* 5' SEGMENTS ALLOWED
ON STRAIGHT SECTIONS
AS APPROVED BY THE
ENGINEER.



NOTES:

1. PRECAST CONCRETE DUAL FACED, SLOPED MOUNTABLE CURB SHALL BE PER WSDOT STANDARD PLAN F-10.64, 12" WIDE.
2. CURB SHALL BE INSTALLED USING EPOXY ADHESIVE PER WSDOT STANDARD SPECIFICATION 9-26.2. EPOXY SHALL BE APPLIED AT A RATE OF ONE GALLON PER SEVEN FEET OF CURBING.
3. CURB SHALL BE INSTALLED IN 20' SEGMENTS, WITH 18" OPENING BETWEEN ENDS, OR MODIFIED TO FIT FIELD DIMENSIONS AS APPROVED BY THE ENGINEER.
4. CURB AND DELINEATOR SHALL BE THE SAME COLOR AS THE CHANNELIZATION STRIPE.
5. DELINEATOR BASE SHALL BE AFFIXED TO PAVEMENT WITH FLEXIBLE BITUMINOUS PAVEMENT MARKER ADHESIVE PER WSDOT STANDARD SPECIFICATION 9-02.1(8).
6. RPM'S SHALL BE PLACED AT EACH APPROACH END OF THE CURBING AND CENTERED ON EACH SECTION AS SHOWN. THEY SHALL BE THE SAME COLOR AS THE CHANNELIZATION STRIPE.
7. THIS DETAIL IS USED TO RETRO-FIT EXISTING STREETS. NEW CONSTRUCTION SHALL REQUIRE CAST-IN-PLACE CURBS.

APPROVED BY CITY ENGINEER:

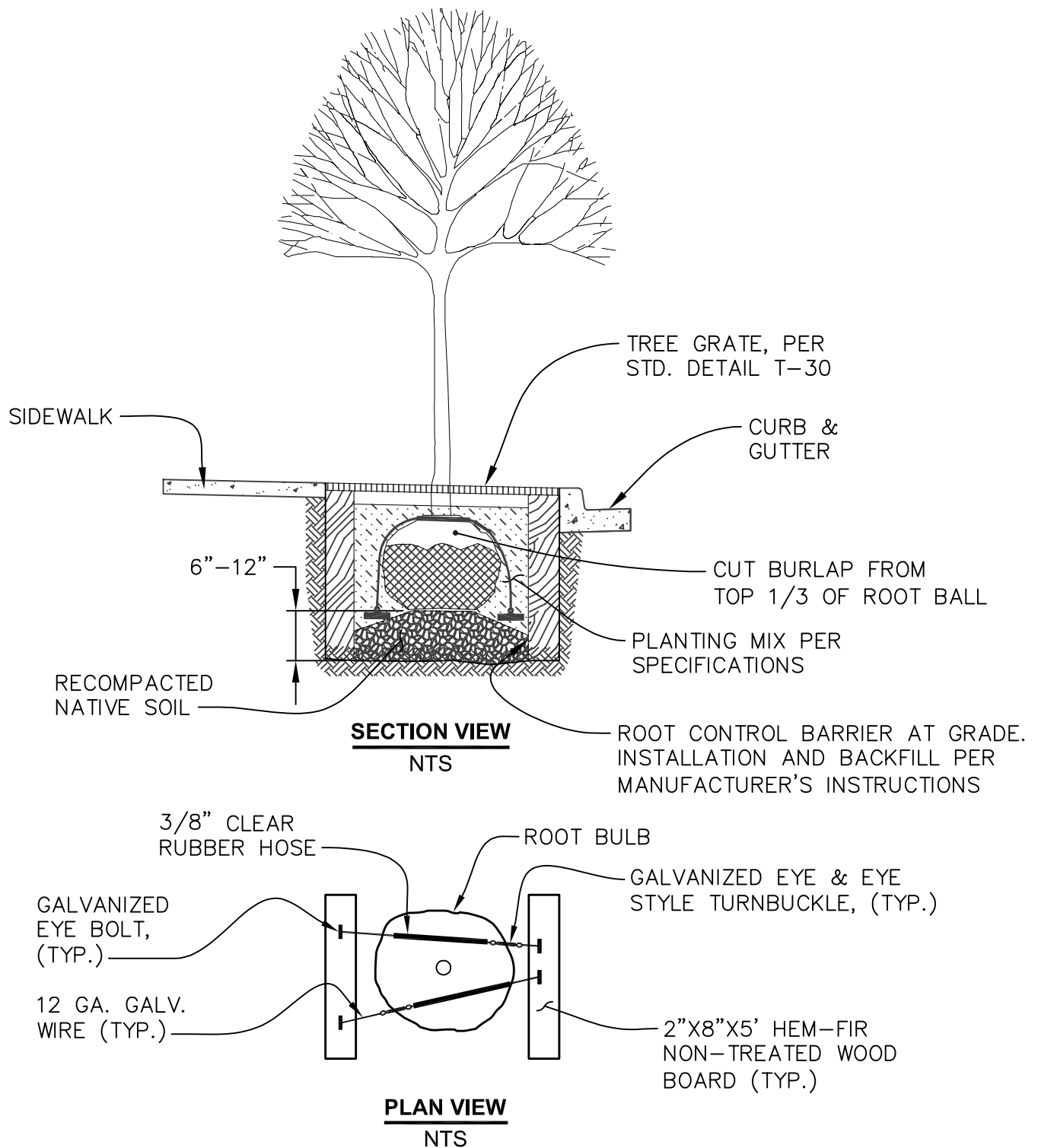
DATE:
01/05/2021



PRECAST CONCRETE DUAL FACED
SLOPED MOUNTABLE CURB RETROFIT

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-32.3



NOTES:

1. PLANT TREES 1" HIGHER THAN GROWN IN NURSERY.
2. TREE PIT SHALL NOT BE LESS THAN 2 TIMES THE ROOT BALL DIAMETER.
3. STREET TREES SHALL NOT BE PLACED WITHIN SIGHT DISTANCE TRIANGLE.
4. STREET TREES SHALL BE SELECTED FROM THE CITY APPROVED LIST OF STREET TREES.

APPROVED BY CITY ENGINEER:

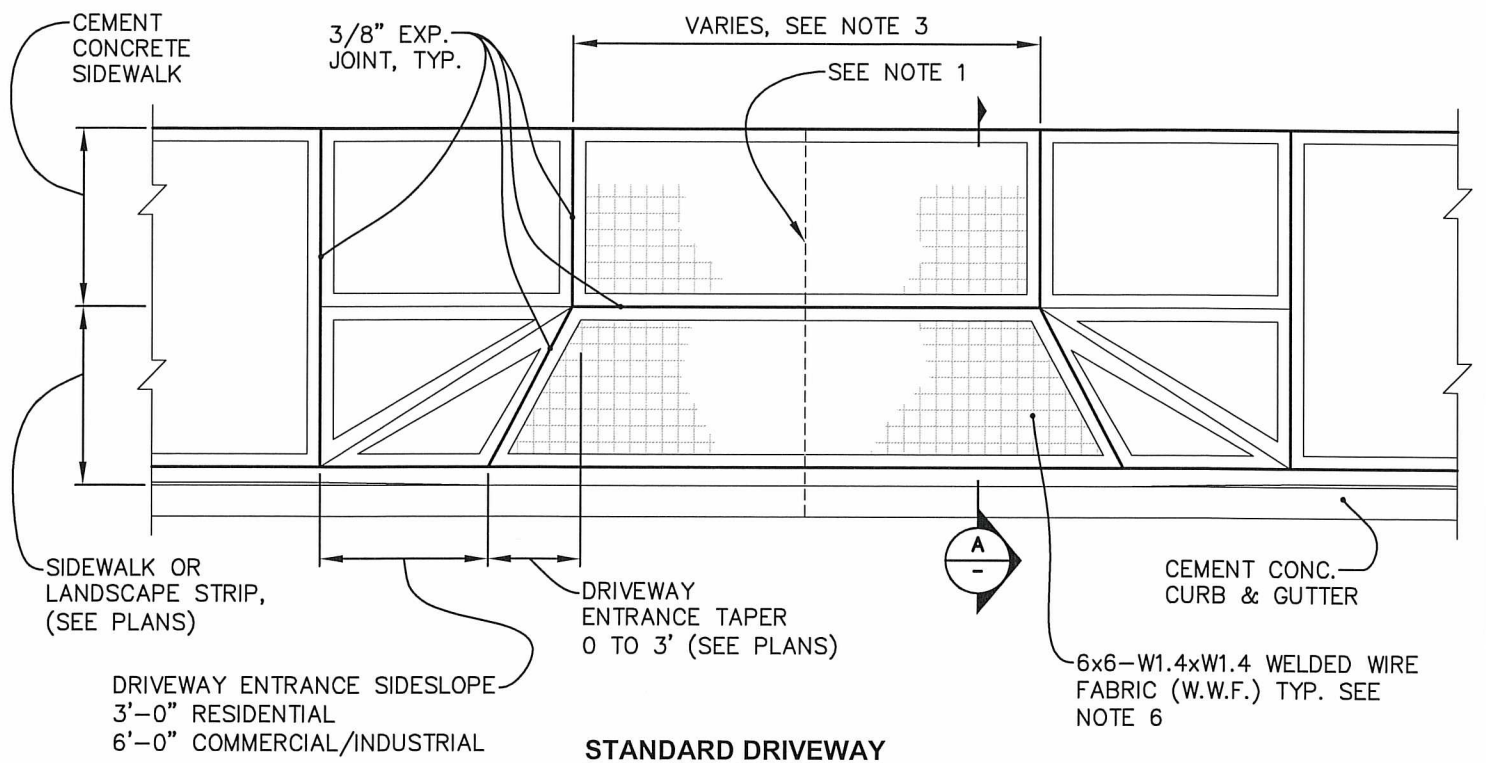
DATE:
01/05/2021



STREET TREE UNDERGROUND
STABILIZATION

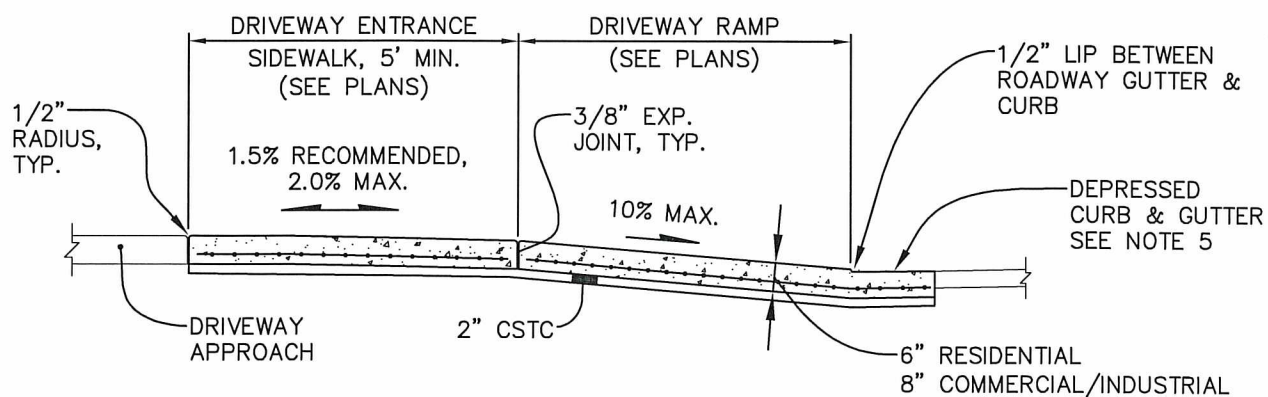
PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-33.2



STANDARD DRIVEWAY

NTS



SECTION

NTS

NOTES:

1. WHEN THE DRIVEWAY WIDTH EXCEEDS 15'(FT), CONSTRUCT A FULL DEPTH EXPANSION JOINT WITH 3/8" JOINT FILLER ALONG THE DRIVEWAY CENTERLINE. SEE WSDOT STANDARD PLAN F-30.10. CONSTRUCT EXPANSION JOINTS PARALLEL WITH THE CENTERLINE AS REQUIRED AT 15'(FT) MAXIMUM SPACING WHEN DRIVEWAY WIDTHS EXCEED 30'(FT).
2. RESIDENTIAL DRIVEWAY SERVING 2 OR MORE LIVING UNITS AND/OR THAT CONNECT TO AN ACCESS ROAD SHALL BE CONSTRUCTED AS A COMMERCIAL/INDUSTRIAL DRIVEWAY.
3. SEE STANDARD DETAIL T-04 FOR DRIVEWAY WIDTHS AND LOCATIONS.
4. CONCRETE SHALL BE CLASS 4000 WITH 5% AIR ENTRAINMENT WITH A BROOM FINISH PARALLEL TO CURB LINE.
5. DEPRESSED CURB FOR HEAVY COMMERCIAL/INDUSTRIAL DRIVEWAYS SHALL BE POURED INTEGRAL/MONOLITHIC TO DRIVEWAY.
6. WELDED WIRE FABRIC (W.W.F.) SHALL BE PLACED 3" FROM BOTTOM, AND 2" FROM ALL OTHER LIMITS. WELDED WIRE FABRIC (W.W.F.) NOT REQUIRED FOR RESIDENTIAL DRIVEWAYS.
7. WHEN DRIVEWAY OPENING IS TO BE CONSTRUCTED WHERE CURB EXISTS, THE ENTIRE CURB AND GUTTER SECTION SHALL BE REMOVED TO THE NEAREST EXPANSION JOINT ON EACH SIDE OF THE OPENING AND REPLACED.

APPROVED BY CITY ENGINEER:

DATE:

2/23/2018

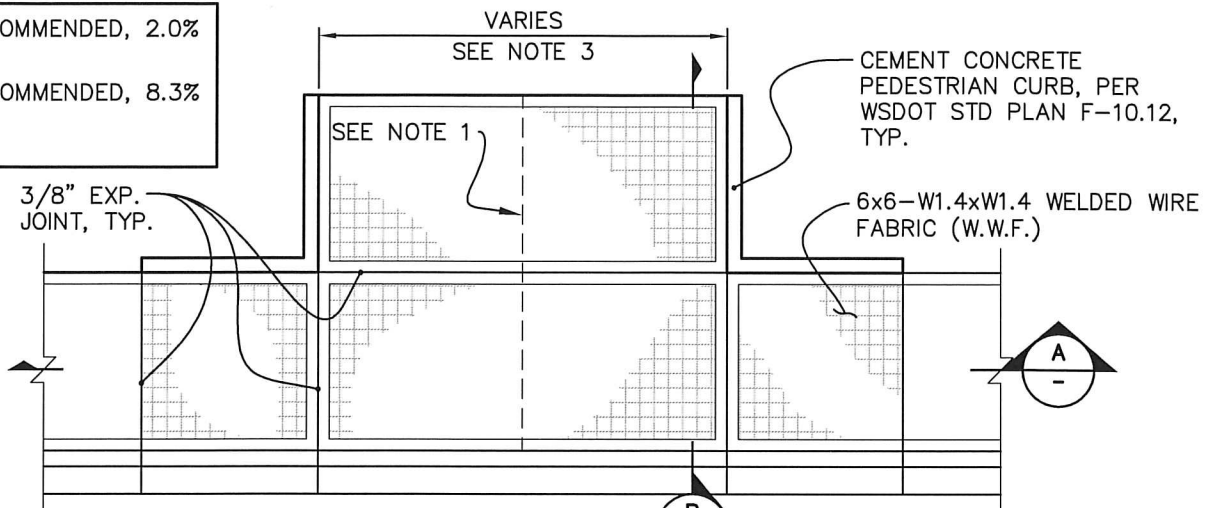


STANDARD DRIVEWAY -
OFFSET APRON

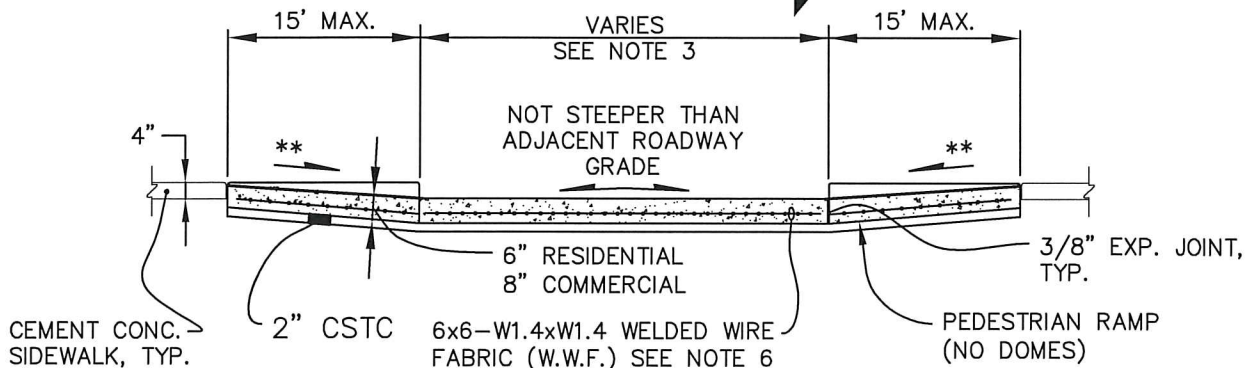
COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-34.1

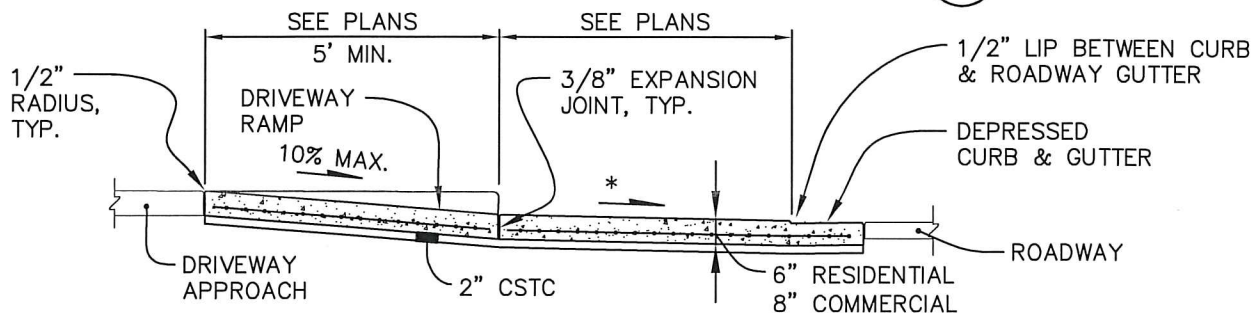
* 1.5% RECOMMENDED, 2.0% MAX.
 ** 7.5% RECOMMENDED, 8.3% MAX.



ALTERNATE DRIVEWAY
 NTS



SECTION
 NTS



SECTION
 NTS

NOTES:

1. WHEN THE DRIVEWAY WIDTH EXCEEDS 15'(FT), CONSTRUCT A FULL DEPTH EXPANSION JOINT WITH 3/8" JOINT FILLER ALONG THE DRIVEWAY CENTERLINE. SEE WSDOT STANDARD PLAN F-30.10. CONSTRUCT EXPANSION JOINTS PARALLEL WITH THE CENTERLINE AS REQUIRED AT 15'(FT) MAXIMUM SPACING WHEN DRIVEWAY WIDTHS EXCEED 30'(FT).
2. RESIDENTIAL DRIVEWAY SERVING 2 OR MORE LIVING UNITS AND/OR THAT CONNECT TO AN ACCESS ROAD SHALL BE CONSTRUCTED AS A COMMERCIAL/INDUSTRIAL DRIVEWAY.
3. SEE STANDARD DETAIL T-04 FOR DRIVEWAY WIDTHS AND LOCATIONS.
4. CONCRETE SHALL BE CLASS 4000 WITH 5% AIR ENTRAINMENT WITH A BROOM FINISH PARALLEL TO CURB LINE.
5. DEPRESSED CURB FOR HEAVY COMMERCIAL/INDUSTRIAL DRIVEWAYS SHALL BE POURED INTEGRAL/MONOLITHIC TO DRIVEWAY.
6. WELDED WIRE FABRIC (W.W.F.) SHALL BE PLACED 3" FROM BOTTOM, AND 2" FROM ALL OTHER LIMITS. WELDED WIRE FABRIC (W.W.F.) NOT REQUIRED FOR RESIDENTIAL DRIVEWAYS.
7. WHEN DRIVEWAY OPENING IS TO BE CONSTRUCTED WHERE CURB EXISTS, THE ENTIRE CURB AND GUTTER SECTION SHALL BE REMOVED TO THE NEAREST EXPANSION JOINT ON EACH SIDE OF THE OPENING AND REPLACED.

APPROVED BY CITY ENGINEER:

DATE:



ALTERNATE DRIVEWAY -
 INLINE (DROP) APRON

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-35.1

STREET LIGHTING LAMP SCHEDULE			
STREET CLASSIFICATION	LAMP TYPE	UPDATED SPEC. LEOTEK PART #	ALTERNATE SPEC. AEL PART # *
PRINCIPAL ARTERIAL	TYPE A	GCL2-80J-MV-40K-3R -GY-295-PCR7-WL	ATBO 60BLEDE10 MVOLT R3 MP NL AO P7
MINOR ARTERIAL	TYPE B	GCM3-60J-MV-40K-2R -GY-185-PCR7-WL	ATBO 30BLEDE13 MVOLT R2 MP NL AO P7
MINOR ARTERIAL W/ CENTER TURN LANE OR MEDIAN	TYPE B	GCM3-60J-MV-40K-2R -GY-185-PCR7-WL	ATBO 30BLEDE13 MVOLT R2 MP NL AO P7
NON-RESIDENTIAL COLLECTOR	TYPE B	GCM3-60J-MV-40K-2R -GY-185-PCR7-WL	ATBO 30BLEDE13 MVOLT R2 MP NL AO P7
RESIDENTIAL COLLECTOR	TYPE D	GCJ3-30J-MV-40K-2R -GY-090-PCR7-WL	ATBO 20BLEDE10 MVOLT R2 MP NL AO P7
RESIDENTIAL COLLECTOR WITH CENTER TURN LANE OR MEDIAN	TYPE D	GCJ3-30J-MV-40K-2R -GY-090-PCR7-WL	ATBO 20BLEDE10 MVOLT R2 MP NL AO P7
LOCAL NON-RESIDENTIAL	TYPE D	GCJ3-30J-MV-40K-2R -GY-090-PCR7-WL	ATBO 20BLEDE10 MVOLT R2 MP NL AO P7
LOCAL RESIDENTIAL AND LOCAL RESIDENTIAL ALTERNATIVE **	TYPE F	GCJ1-30J-MV-40K-2R -GY-055-PCR7-WL	ATBMic 10BLEDE10 MVOLT R2 MP NO AO P7

* UNLESS SPECIFIED OTHERWISE SEE TABLE 10-8 IN
DESIGN STANDARDS FOR LIGHTING DESIGN CRITERIA.

** SEE STD DETAIL T-29 FOR LOCAL RESIDENTIAL
ORNAMENTAL OPTION.

APPROVED BY CITY ENGINEER:

DATE:
01/05/2021

STREET LIGHTING
LAMP SCHEDULE

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-37.4

FLAT POLE TOP W/ 7-PIN PCR7
RECEPTACLE W/ VANTAGEPOINT
WIRELESS CONTROL MODULE

21" ERA BELL 150 W
LED (III-S-C, 240V) FLAT
LENS BY KIM LIGHTING
(OR APPROVED EQUAL)

HA38L ALUMINUM RIBBON
LUMINAIRE ARM WITH TOP BRACE
AND BOTTOM GUSSET BY KIM
LIGHTING (OR APPROVED EQUAL)

MAST ARM COMPONENTS
PER SIGNAL PLANS

WHEN
APPLICABLE

PAINT SPECIFICATIONS: ALL CAST IRON & STEEL POLE PARTS
SHALL BE GALVANIZED PRIOR TO BEING PRIMED & PAINTED.
FINISH COLOR: RAL 9004
"SIGNAL BLACK"

CL22AC (SIGNAL)
DECORATIVE CAST ALUMINUM
CLAMSHELL BASE COVER BY
VALMONT STRUCTURES (OR
APPROVED EQUAL)

ELEVATION IS TO
TOP OF FOUNDATION

CURB OR EDGE
OF SHOULDER

ROADWAY

12'-0"

5'-6"

28'-0"

PER SIGNAL PLANS

PER MANUFACTURER'S DRAWING

8'-0"

4'-0"

10"

APPROVED BY CITY ENGINEER:

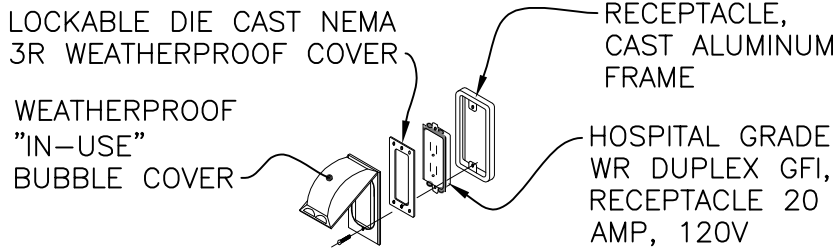
DATE:
01/05/2021



DOWNTOWN DECORATIVE TYPE III
COMBO LIGHTING & MAST ARM SIGNAL

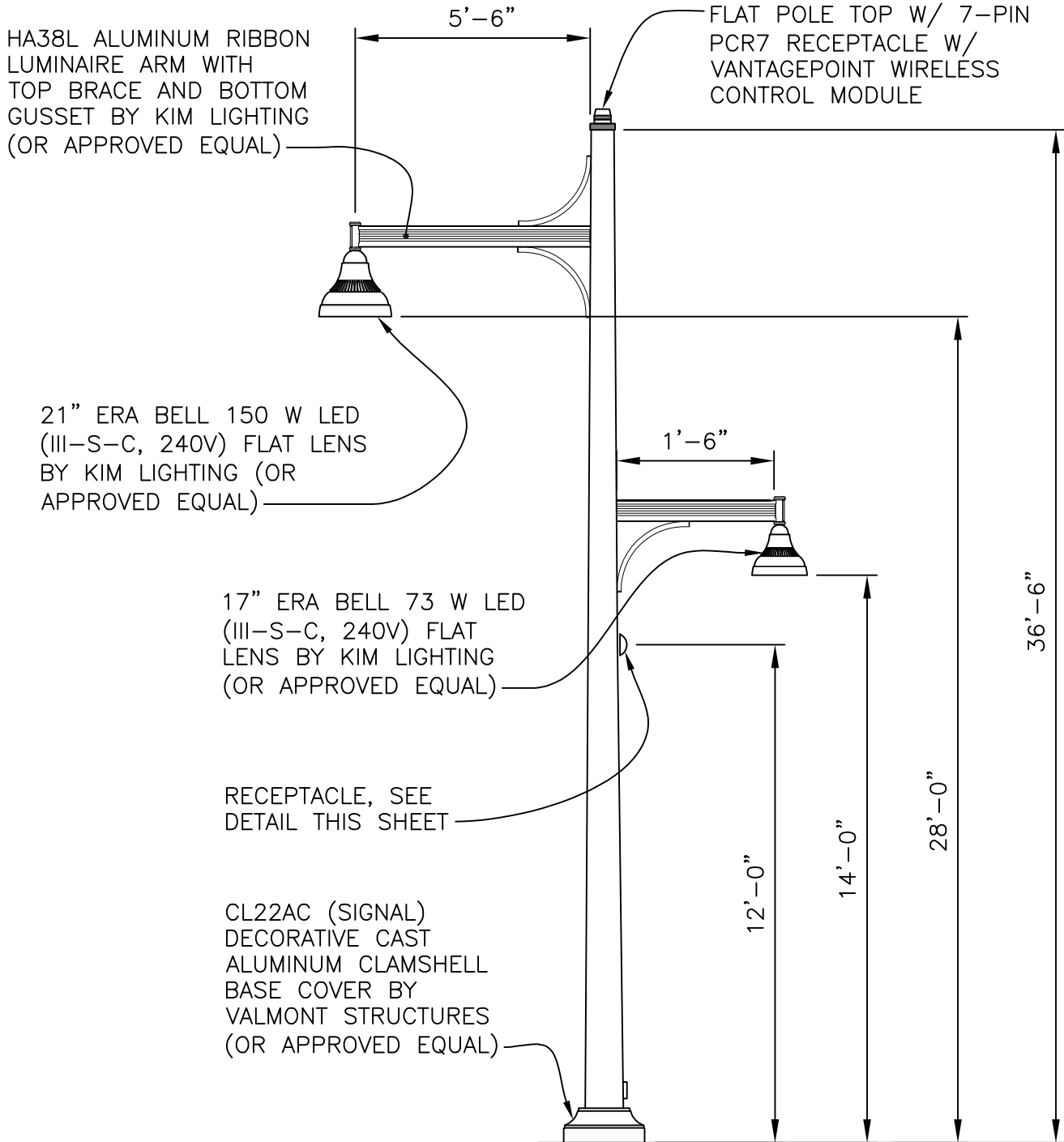
PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-38.2



POLE RECEPTACLE
NOT TO SCALE

PAINT SPECIFICATIONS: ALL CAST IRON AND STEEL POLE PARTS SHALL BE GALVANIZED PRIOR TO BEING PRIMED AND PAINTED.
FINISH COLOR: RAL 9004 "SIGNAL BLACK"



TALL DECORATIVE POLE
NOT TO SCALE

APPROVED BY CITY ENGINEER:

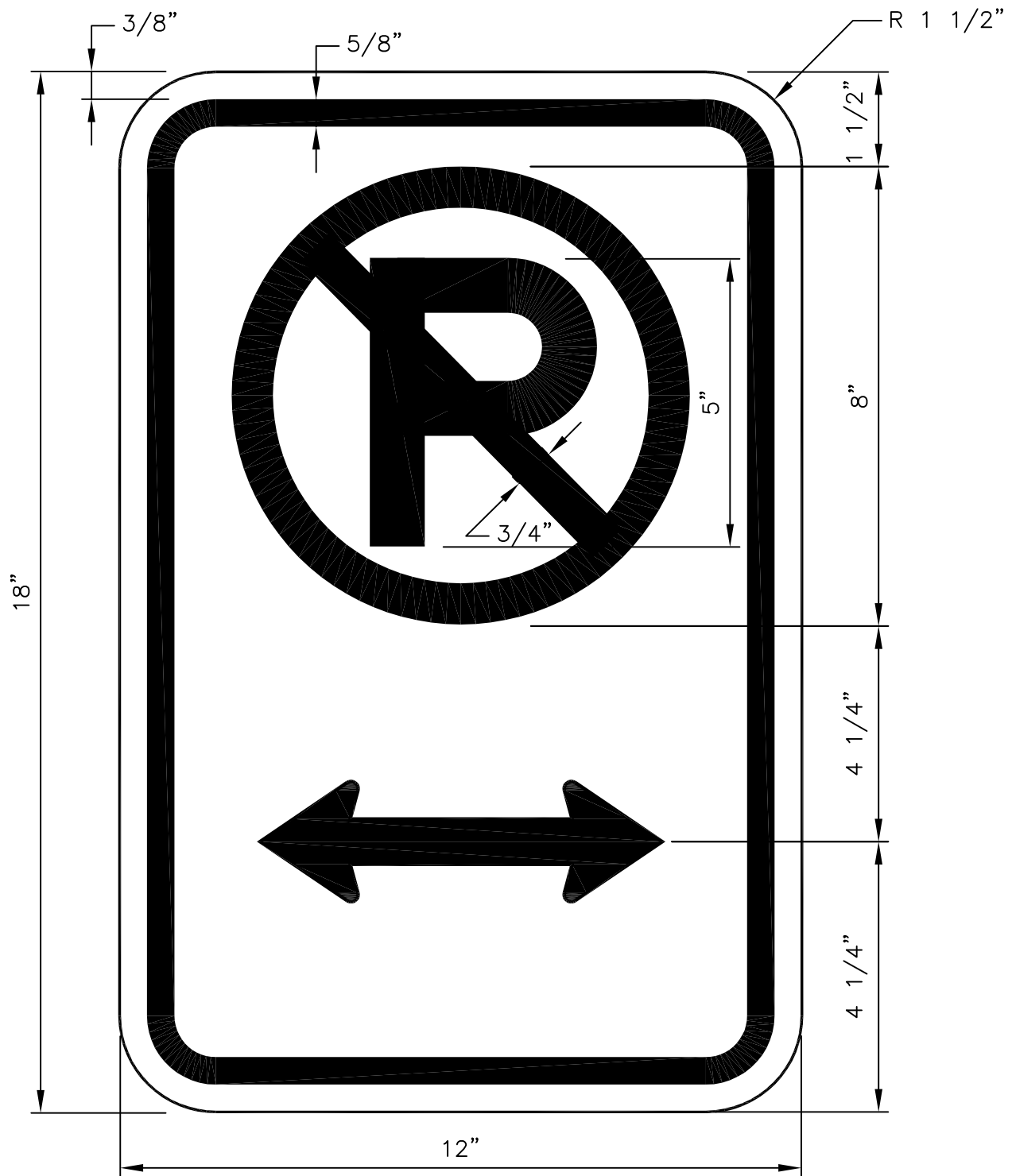
DATE:
01/05/2021



DOWNTOWN DECORATIVE
LIGHT POLE

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-39.2



COLORS:

LEGEND, CIRCLE, DIAGONAL, BORDER, & ARROW*
SYMBOL
BACKGROUND

- RED (RETROREFLECTIVE)
- BLACK
- WHITE (RETROREFLECTIVE)

* USE SINGLE ARROW LEFT OR RIGHT AS APPROPRIATE

APPROVED BY CITY ENGINEER:

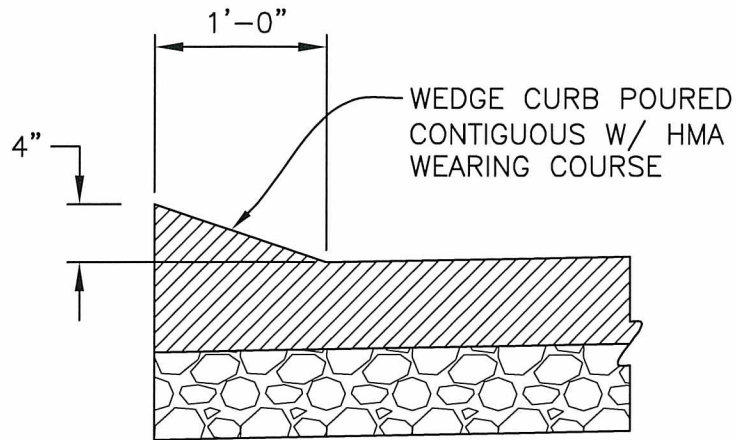
DATE:
01/05/2021



"NO PARKING" SIGN

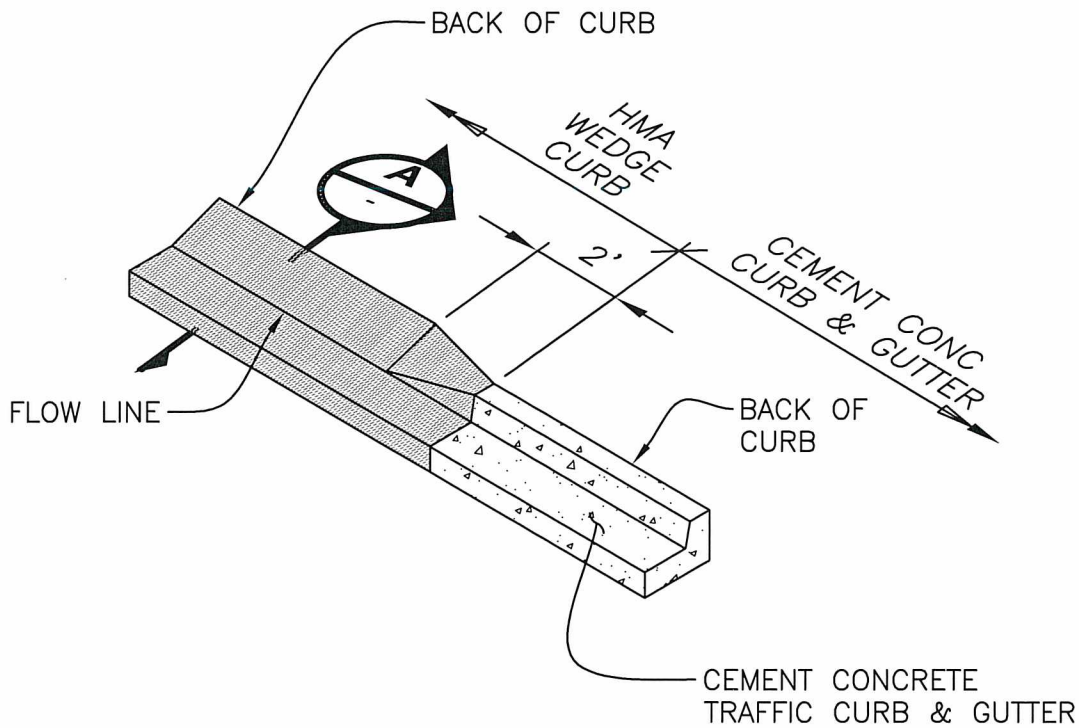
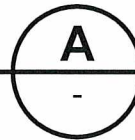
PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-40.2



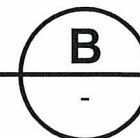
ASPHALT WEDGE CURB

NTS



CONCRETE TRAFFIC CURB & GUTTER TO HMA WEDGE CURB TRANSITION

NTS



APPROVED BY CITY ENGINEER:

DATE:

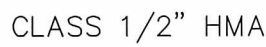
12/31/18



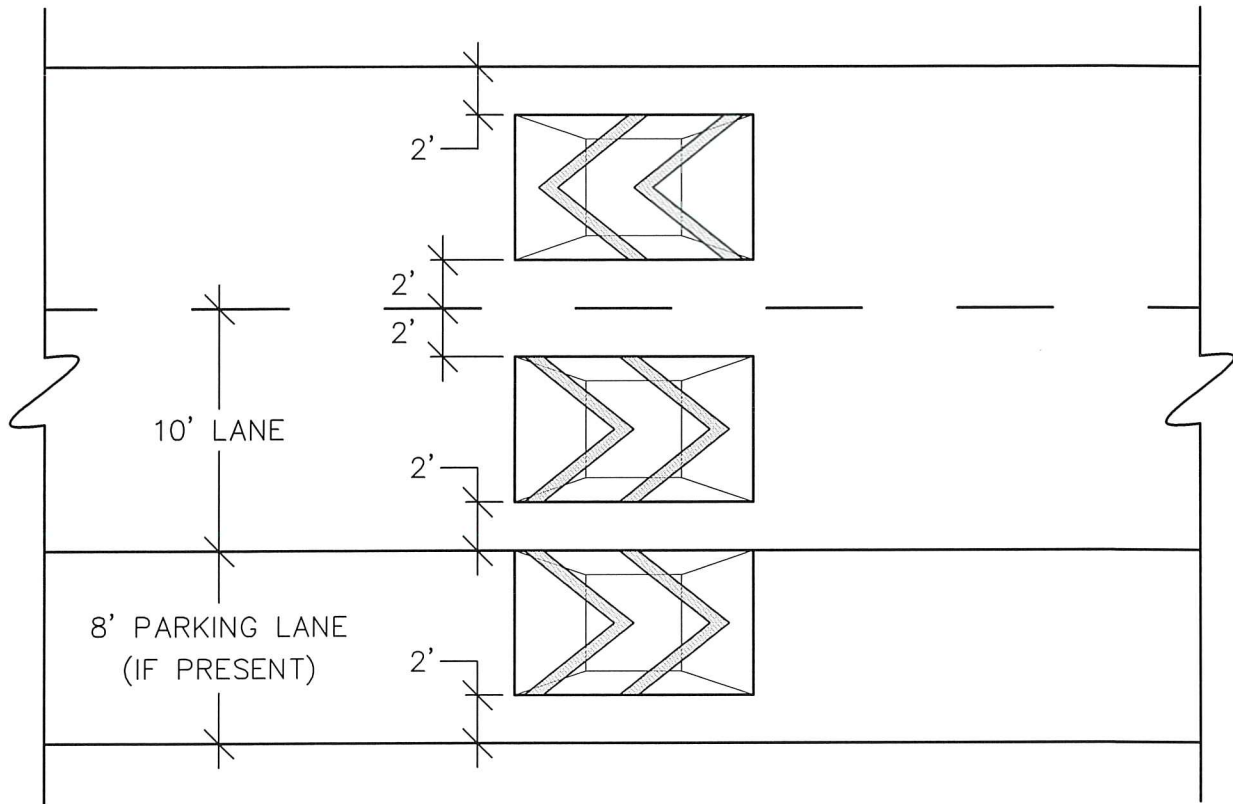
CONCRETE TRAFFIC CURB & GUTTER
TO HMA WEDGE CURB TRANSITION

PUBLIC WORKS DEPARTMENT

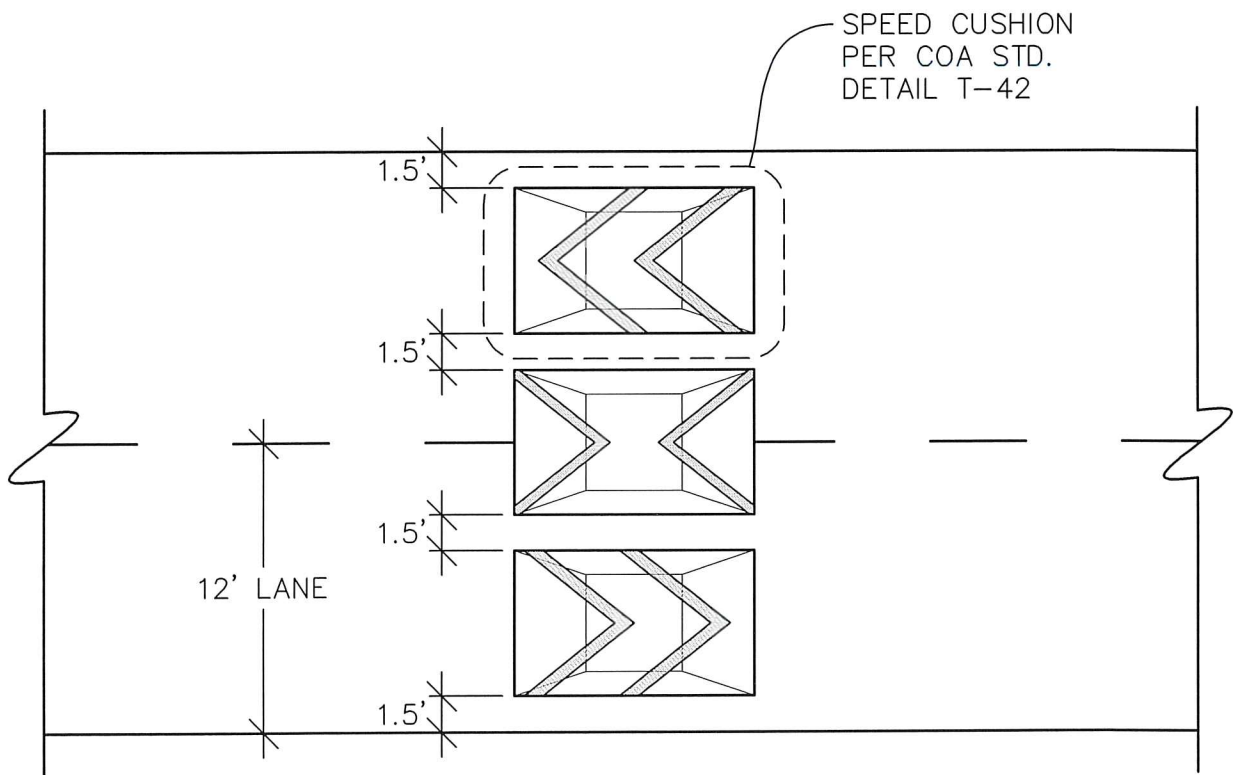
STANDARD DETAIL: T-41.1



STANDARD DETAIL: T-42.1



28' ROADWAY
SCALE: 6" = 1'-0"



24' ROADWAY
SCALE: 6" = 1'-0"

SPEED CUSHION
PER COA STD.
DETAIL T-42

APPROVED BY CITY ENGINEER:

DATE:



SPEED CUSHION
PLAN

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-42A.1

PCCP TO HMA
LONGITUDINAL JOINT
PER WSDOT STD
PLAN A-40.10-04

FULL DEPTH
EXPANSION JOINT 10'
O.C. PER WSDOT STD
PLAN A-40.10.02

1'-0" WIDE WHITE
THERMOPLASTIC STRIP

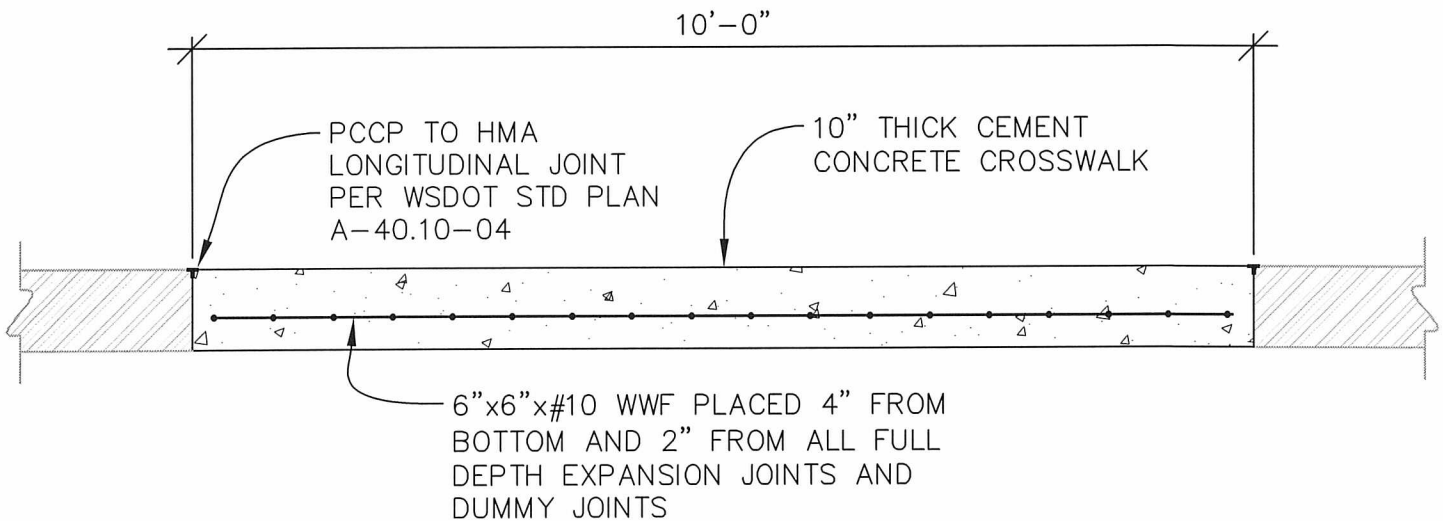
PORTLAND CEMENT
CONCRETE PAVING (PCCP)
WITH 2'x2' SCORING
PATTERN PER CITY OF
AUBURN STANDARDS SEE
DETAIL A THIS SHEET

1'-0" WIDE WHITE
THERMOPLASTIC STRIP

PCCP TO HMA
LONGITUDINAL JOINT
PER WSDOT STD PLAN
A-40.10-04

PLAN

SCALE: 6" = 1'-0"



SECTION A

SCALE: 6" = 1'-0"

APPROVED BY CITY ENGINEER:

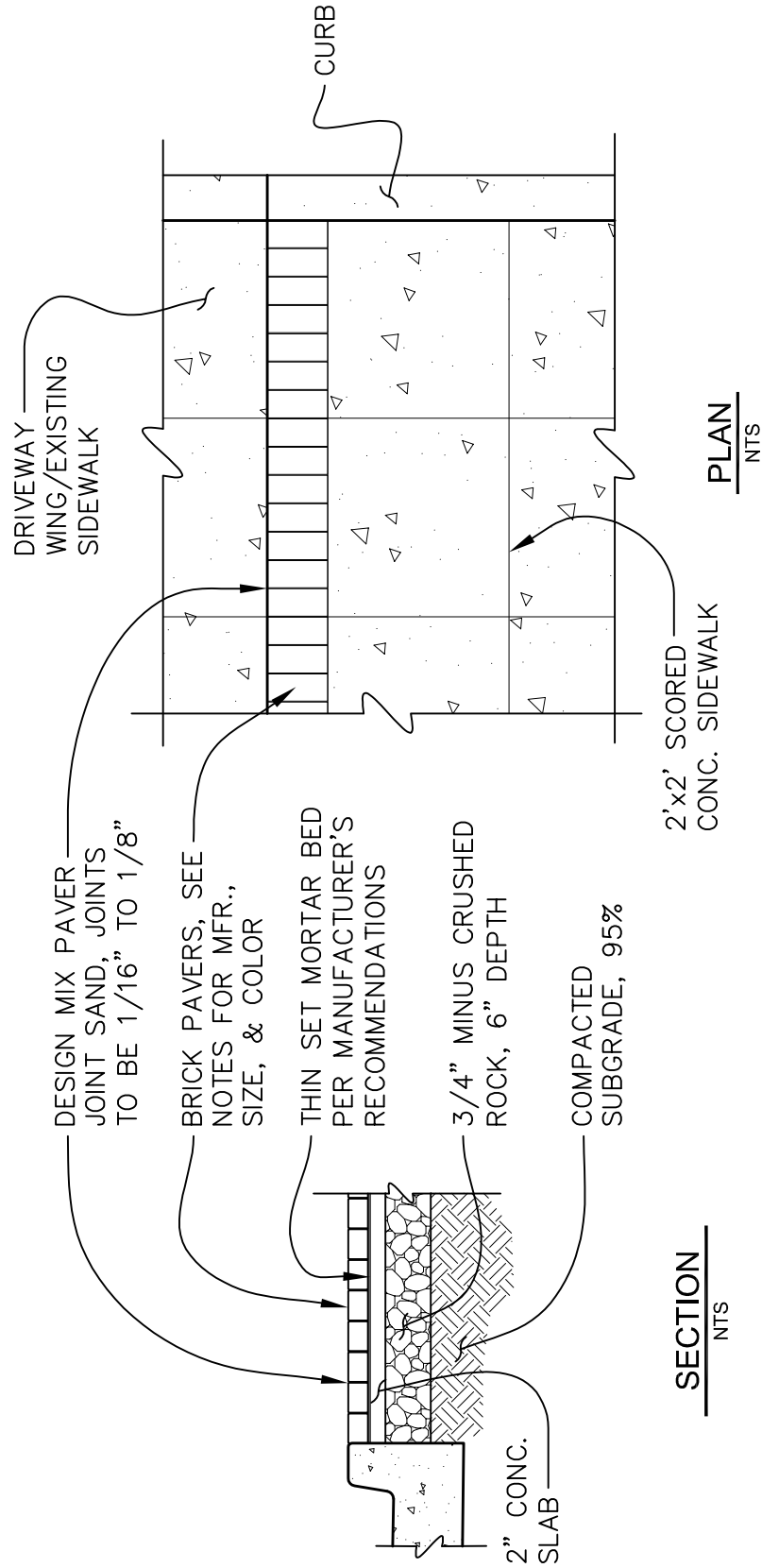
DATE:



DOWNTOWN PEDESTRIAN
CROSSWALK

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-43.1



NOTE:
BRICKS TO BE MORTAR SET, (1) ROW STACK
PATTERN, HOLLAND 6CM PAVERS BY MUTUAL
MATERIALS. COLOR: RED (RUSTIC BLEND)
SIZE: $2\frac{3}{8}" \times 7\frac{3}{8}" \times 3\frac{15}{16}"$

APPROVED BY CITY ENGINEER:

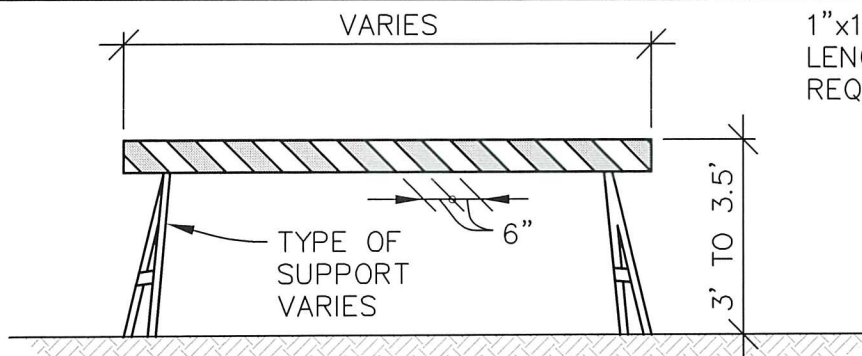
DATE:
01/05/2021



DOWNTOWN BRICK
PAVER BAND

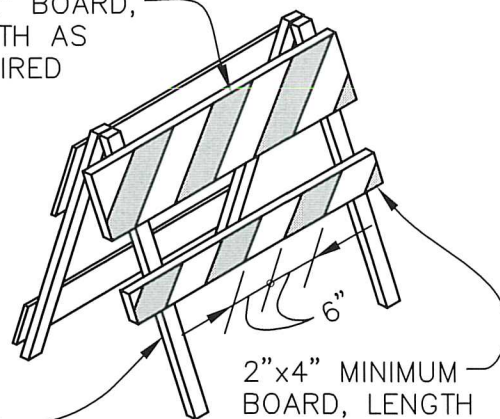
PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-44.2



TYPE I BARRICADE

1"x12" BOARD,
LENGTH AS
REQUIRED

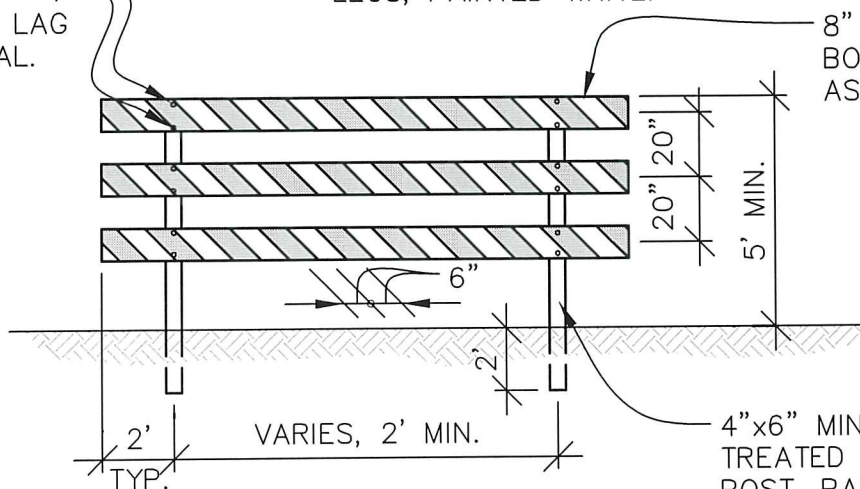


TYPE II BARRICADE

2 EACH PER JOINT,
1/2"Øx3" LONG LAG
SCREWS, TYPICAL.

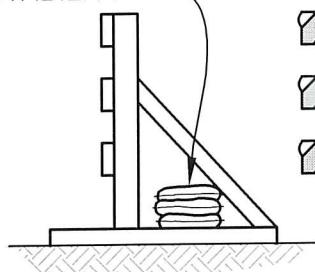
2"x4" MIN., PRESSURE
TREATED OR CEDAR
LEGS, PAINTED WHITE.

8" TO 12"x1"
BOARD LENGTH
AS REQUIRED



4"x6" MIN., PRESSURE
TREATED OR CEDAR
POST, PAINTED WHITE

SAND BAGS
FOR ADD'L
STABILITY



**TYPE III BARRICADE
(Movable-Temporary)**

**TYPE III BARRICADE
(Fixed-Permanent)**

BARRICADE DIMENSIONS

TYPE	I	II	II
RAIL WIDTH	8" MIN. 12" MAX.	8" MIN. 12" MAX.	8" MIN. 12" MAX.
RAIL LENGTH	2' MIN.	2' MIN.	4' MIN.
RAIL HEIGHT	3' MIN.	3' MIN.	5' MIN.
FRAME TYPE	DEMOUNTABLE OR HEAVY "A"	LIGHT "A" FRAME	POST OR SKIDS
APPLICATION	MOVEABLE	PORTABLE	PERMANENT

NOTES:

1. TEMPORARY BARRICADE SHALL HAVE ORANGE AND WHITE STRIPE, PERMANENT BARRICADE SHALL HAVE RED AND WHITE REFLECTORIZED PAINT.
2. STRIPES SHALL BE SLANTED DOWNWARD AT 45° ANGLE AND IN THE DIRECTION OF THE SIDE TO PASS. THEY WILL BE SLANTED IN BOTH DIRECTIONS FROM THE MIDDLE IF TRAFFIC PASSES AROUND BOTH ENDS.
3. STRIPE WIDTH SHALL BE 6", 4" IF RAILS ARE LESS THAN 3' LONG.
4. SEE TABLE FOR BARRICADE DIMENSIONS.
5. FABRICATION PER MUTCD SECTION 6C.

APPROVED BY CITY ENGINEER:

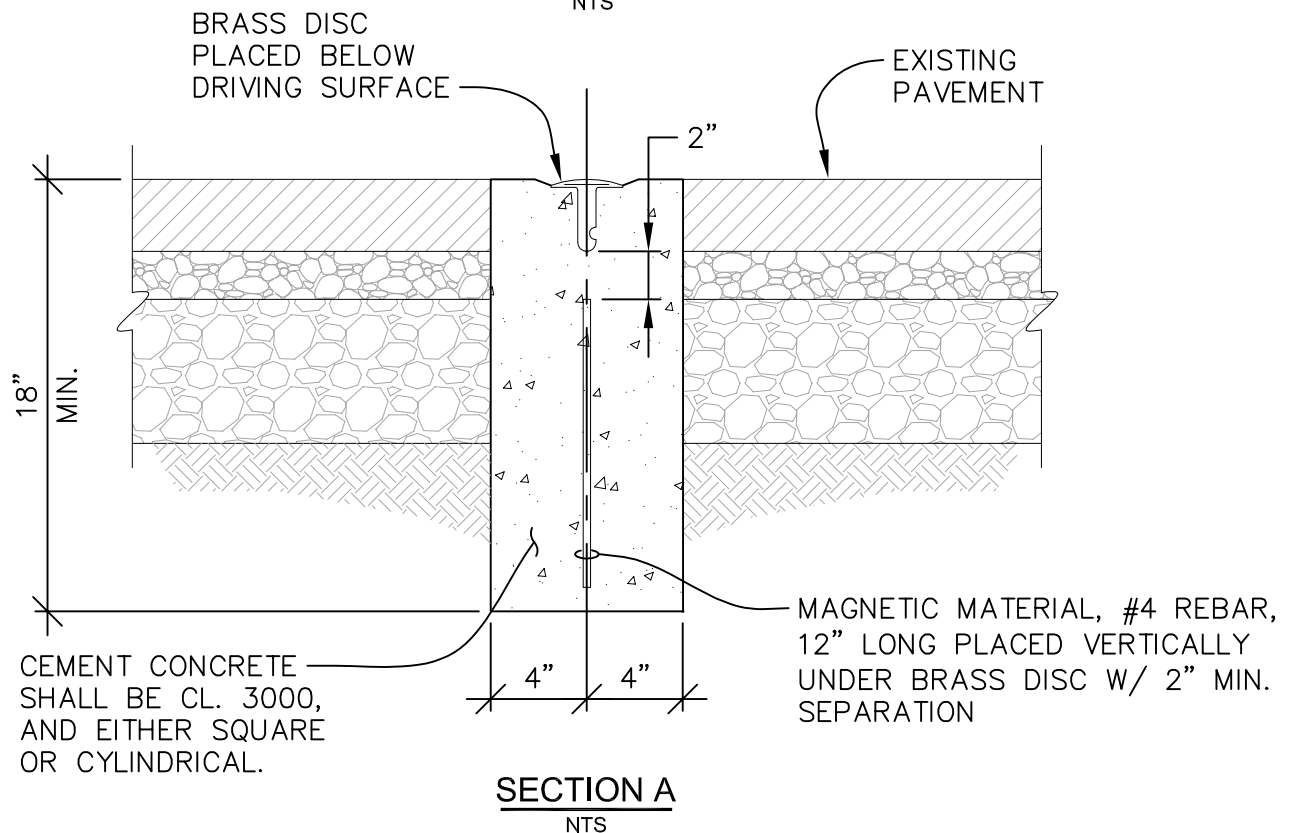
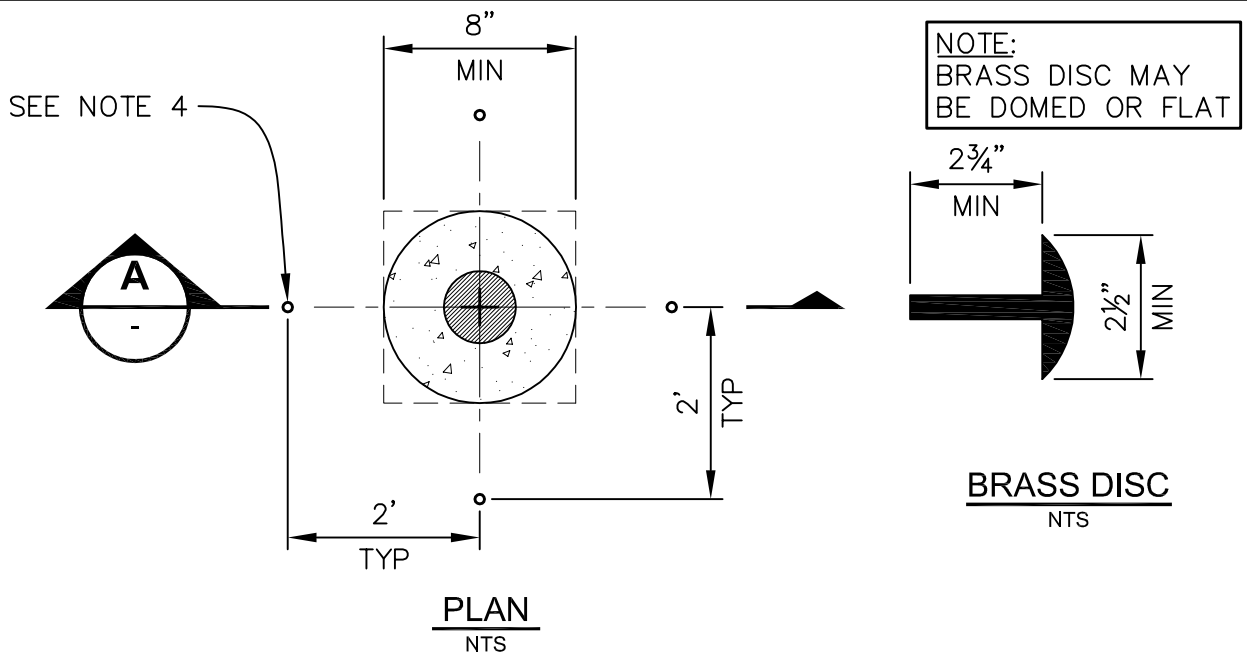
DATE:

CITY OF
AUBURN
WASHINGTON

TYPICAL TRAFFIC
BARRICADES

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-45.1



NOTES:

- 1) THIS TYPE IS USED ON ALL CITY STREETS EXCEPT FOR AUBURN WAY NORTH/SOUTH (SR-164).
- 2) BRASS DISC SHALL BE MARKED BY AN "X" AT THE INTERSECT LOCATION AND MARKED PER RCW 58.09.120.
- 3) THE REQUIREMENTS OF WAC 332-120 SHALL BE MET PRIOR TO AND FOR THE REMOVAL OR DESTRUCTION OF A SURVEY MONUMENT.
- 4) PK NAIL STRADDLES WHICH ARE A STRAIGHT LINE INTERSECTION OF MONUMENT INTERSECT LOCATION.

APPROVED BY CITY ENGINEER:

DATE:
01/05/2021

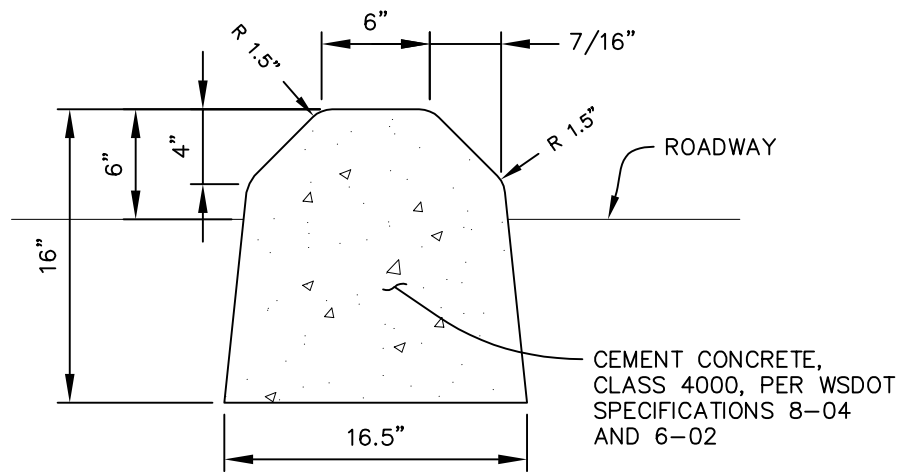


POURED IN PLACE MONUMENT
TYPE A MODIFIED

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-46.2

Plotted by: Craig Dobyns on 12/10/2020 File location: M:\Construction Standard Details\Current Working DWG\Traffic\STDEIL-T-47.1



CAST-IN-PLACE DUAL-FACED MOUNTABLE CEMENT CONCRETE TRAFFIC CURB

NTS

APPROVED BY CITY ENGINEER:

DATE:
01/05/2021

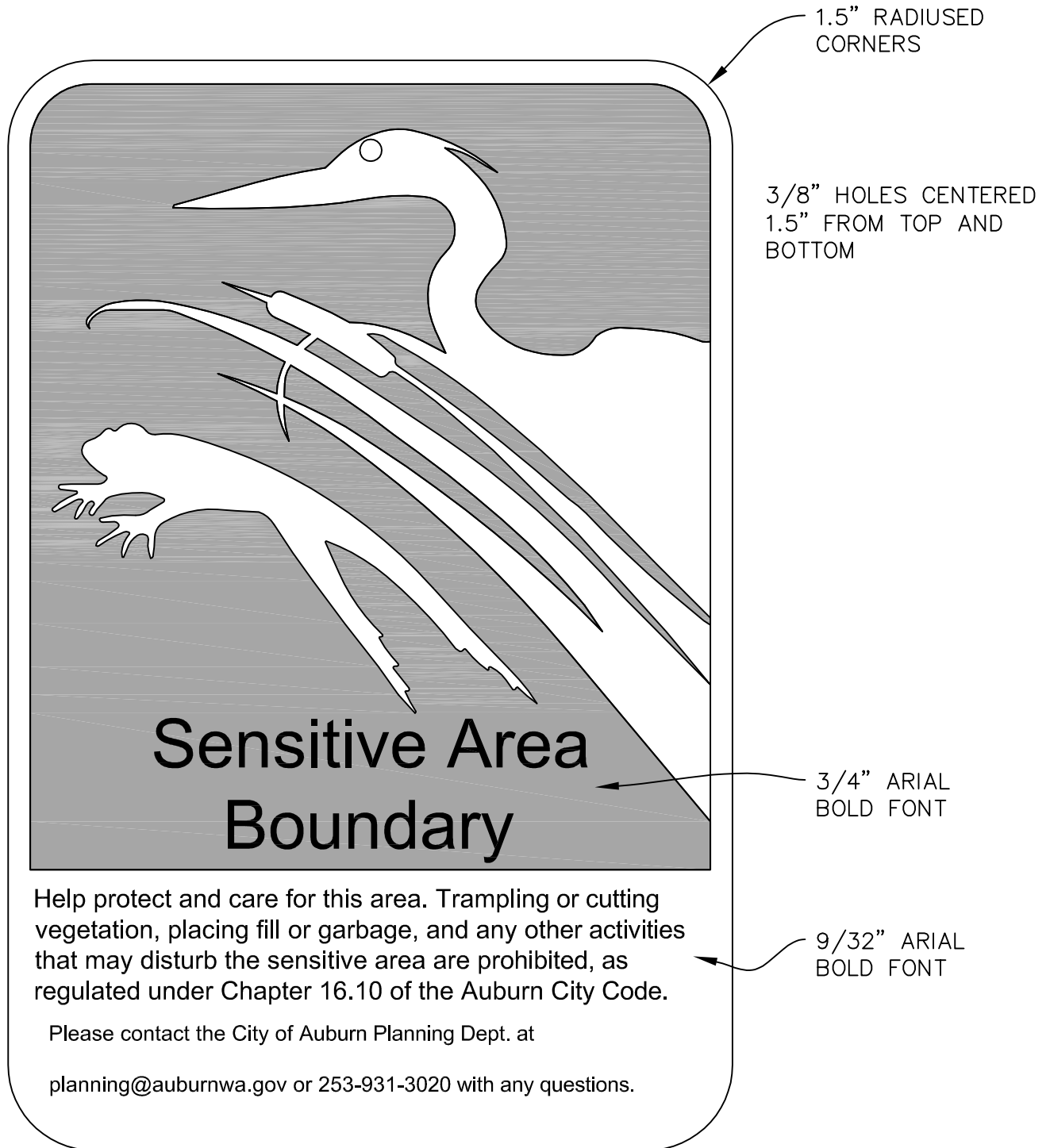


CAST-IN-PLACE DUAL MOUNTABLE
CEMENT CONCRETE TRAFFIC CURB

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-47.1

Plotted by: Craig Dobyns on 12/16/2020 File location: M:\Construction Standard Details\Current Working DWG\Traffic\STDETL-T-48.1



SIGN FACE IS DIGITALLY PRINTED TEAL C:100 M:0 Y:30 K:6 AND BLACK C:100 M:100 Y:100 K:100 ON 3 MIL. CALANDERED WHITE VINYL THEN LAMINATED WITH A 2.5 MIL. LAMINATE. THIS SIGN FACE IS THEN MOUNTED TO .080" THICK 5052 H38 ANODIZED ALUMINUM.

**CITY OF AUBURN
SENSITIVE AREA SIGN
COMMERCIAL AQUATIC**

NTS

APPROVED BY CITY ENGINEER:

DATE:

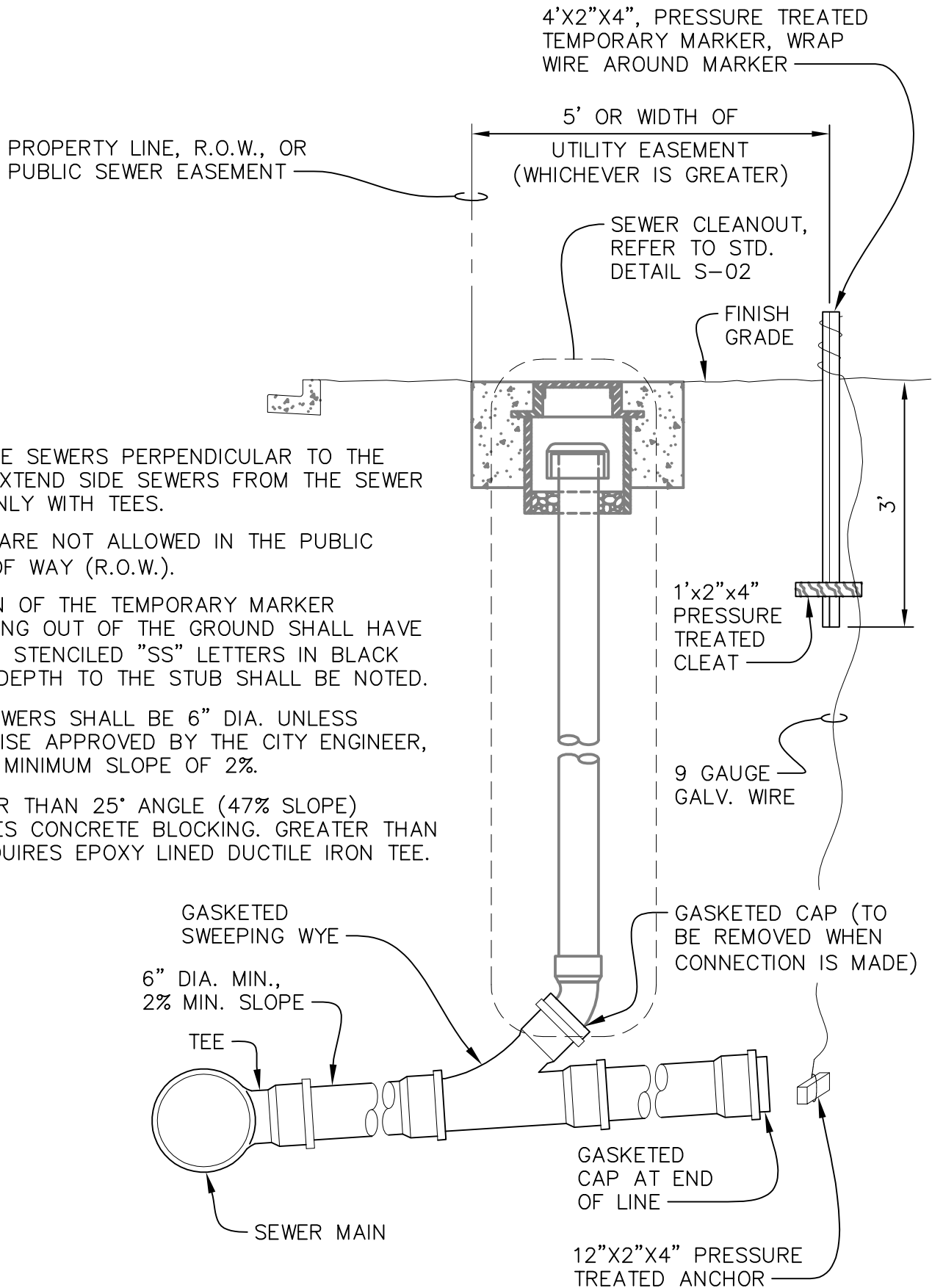
01/05/2021



SENSITIVE AREA SIGN
COMMERCIAL AQUATIC

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: T-48.1



NOTES:

1. LAY SIDE SEWERS PERPENDICULAR TO THE MAIN. EXTEND SIDE SEWERS FROM THE SEWER MAIN ONLY WITH TEES.
2. BENDS ARE NOT ALLOWED IN THE PUBLIC RIGHT OF WAY (R.O.W.).
3. PORTION OF THE TEMPORARY MARKER EXTENDING OUT OF THE GROUND SHALL HAVE 2" HIGH STENCILED "SS" LETTERS IN BLACK PAINT, DEPTH TO THE STUB SHALL BE NOTED.
4. SIDE SEWERS SHALL BE 6" DIA. UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER, WITH A MINIMUM SLOPE OF 2%.
5. GREATER THAN 25° ANGLE (47% SLOPE) REQUIRES CONCRETE BLOCKING. GREATER THAN 45° REQUIRES EPOXY LINED DUCTILE IRON TEE.

APPROVED BY CITY ENGINEER:

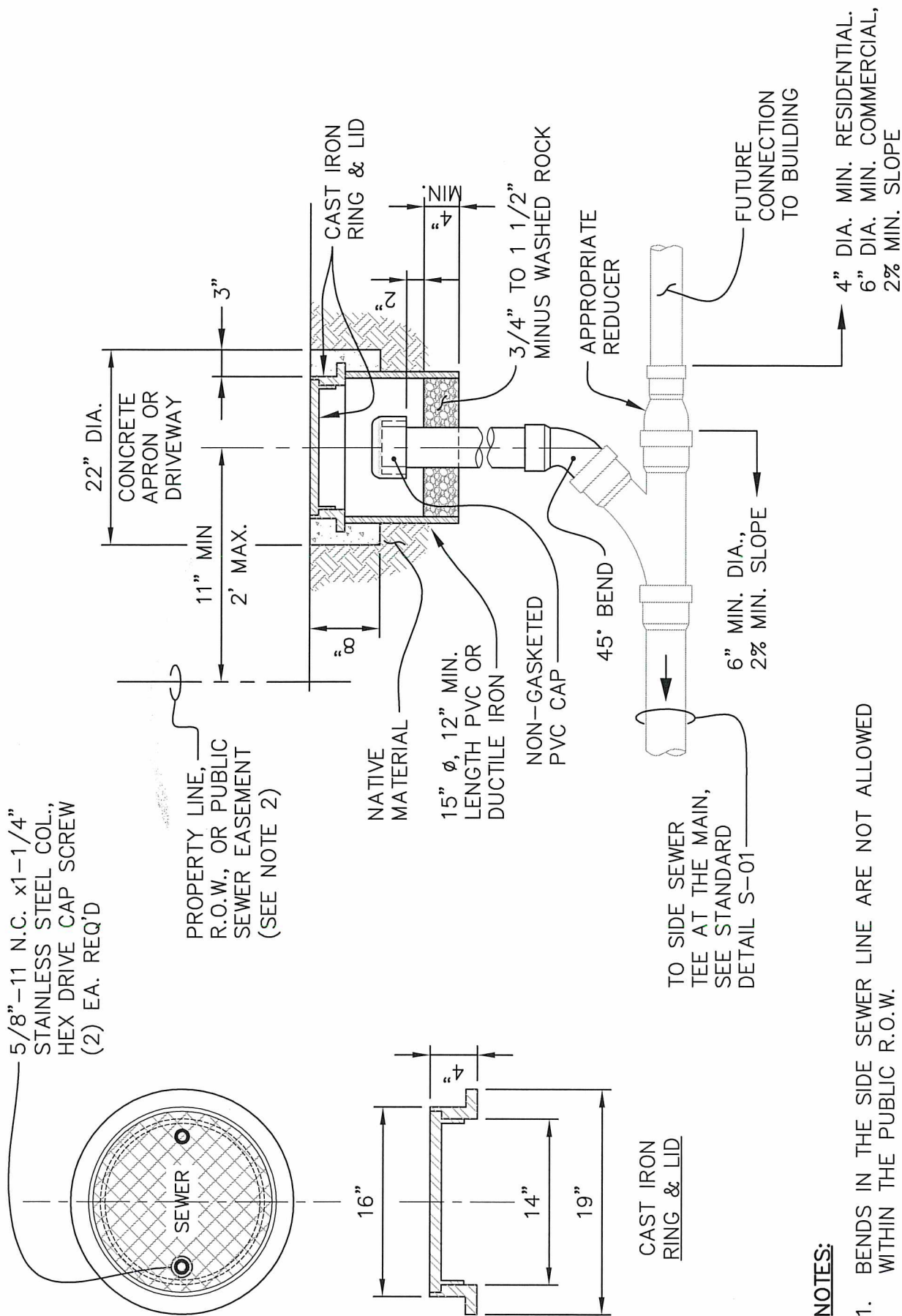
DATE:
01/05/2021



SIDE SEWER
STUB

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: S-01.2



NOTES:

1. BENDS IN THE SIDE SEWER LINE ARE NOT ALLOWED WITHIN THE PUBLIC R.O.W.
2. CLEAN OUTS MAY BE ESTABLISHED ON BACKSIDE OF UTILITY EASEMENTS IF APPROVED BY CITY ENGINEER.
3. ADDITIONAL CLEAN OUTS ARE REQUIRED ON SIDE SEWER LINE WITHIN PRIVATE PROPERTY WHEN CUMULATIVE BENDS ON SIDE SEWER LINE EQUALS OR EXCEEDS 135°

APPROVED BY CITY ENGINEER:

DATE:



PRIVATE SANITARY
SIDE SEWER CLEAN OUT

LOCKING MANHOLE RING &
COVER SHALL CONFORM TO
STANDARD DETAIL S-04

NON-GASKETED
PVC CAP

CLEANOUT RING AND
COVER ADJUSTMENT SHALL
CONFORM TO STANDARD
DETAIL T-05

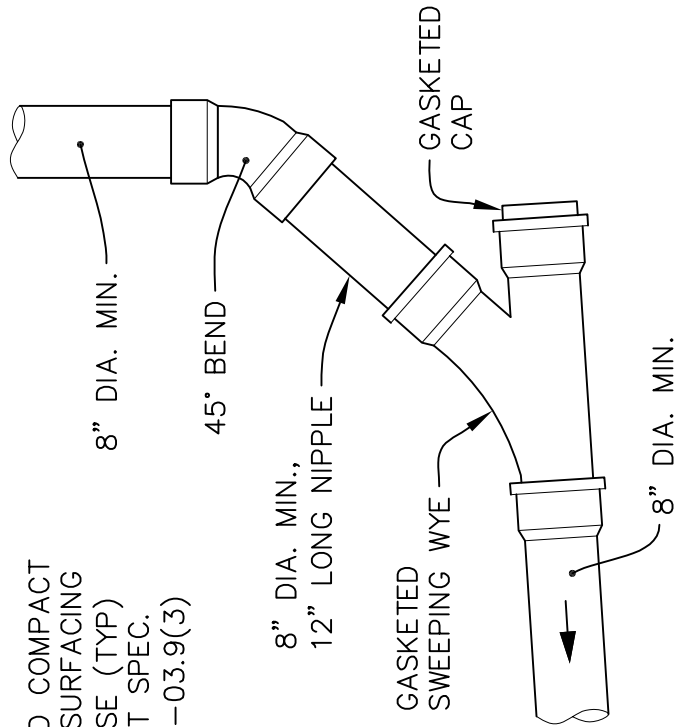
INSTALL PRECAST
CONCRETE ADJUSTING
RINGS/LEVELLING BLOCKS
AS NECESSARY TO MATCH
FINAL GRADE

3/4" TO 1 1/2"
MINUS WASHED
ROCK

PLACE AND COMPACT
CRUSHED SURFACING
TOP COURSE (TYP)
PER WSDOT SPEC.
SECTION 9-03.9(3)

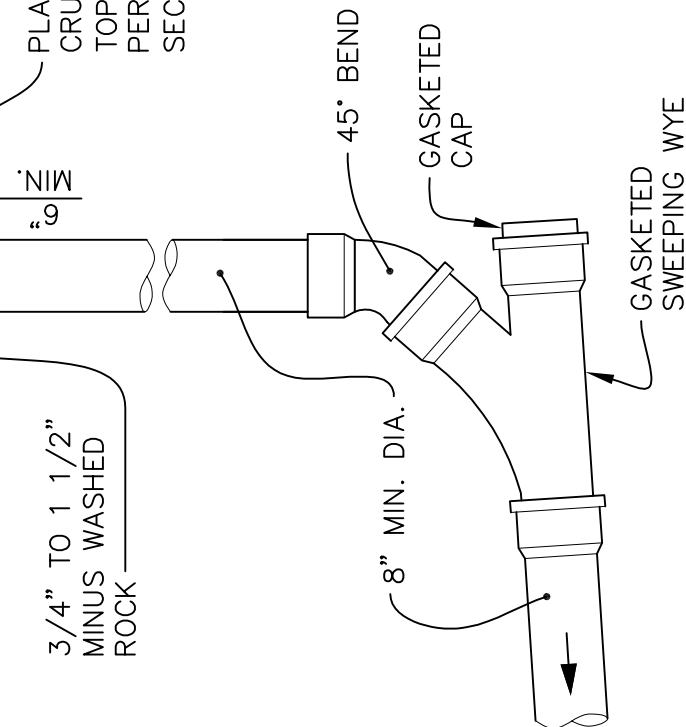
NOTE:
MANHOLES ARE REQUIRED
AT UPSTREAM END OF
ALL SEWER MAINS.

5' MIN.
10' MAX.



ALTERNATE INSTALLATION

NTS



STANDARD INSTALLATION

NTS

APPROVED BY CITY ENGINEER:

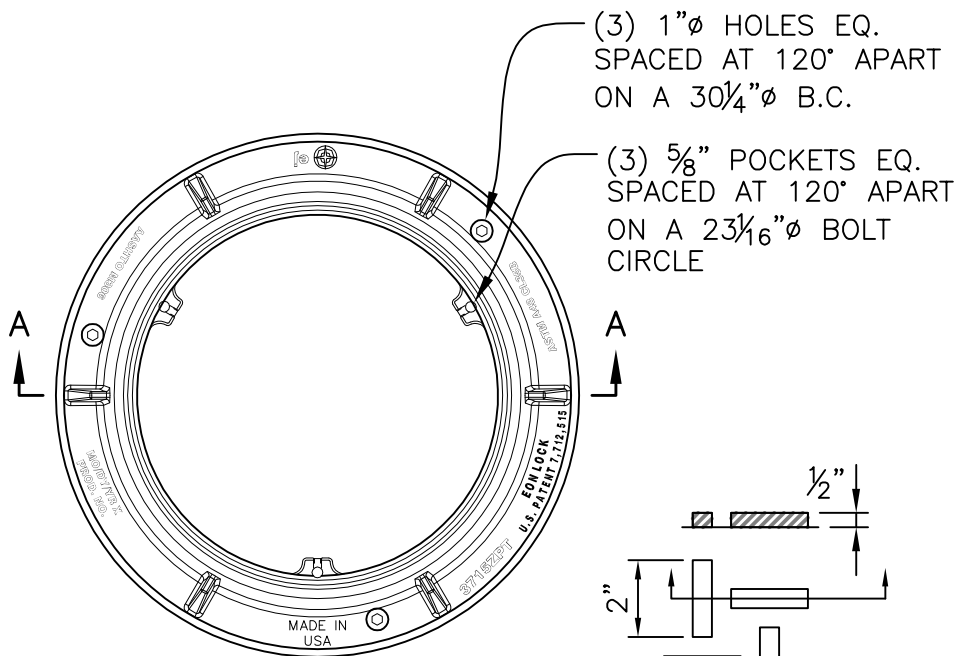
DATE:
01/05/2021



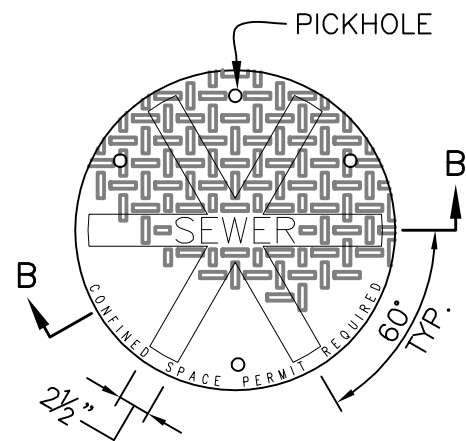
PUBLIC SIDE SEWER
CLEANOUT (8" OR LARGER)

PUBLIC WORKS DEPARTMENT

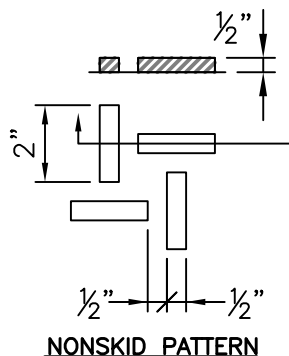
STANDARD DETAIL: S-03.2



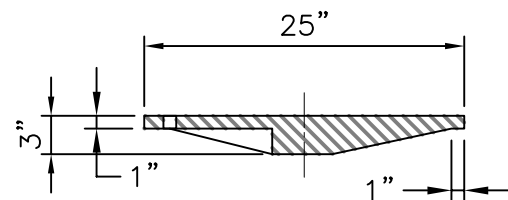
FRAME - PLAN
NTS



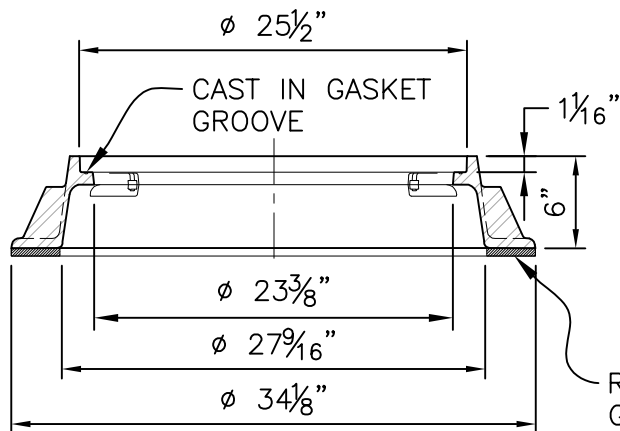
COVER - PLAN
NTS



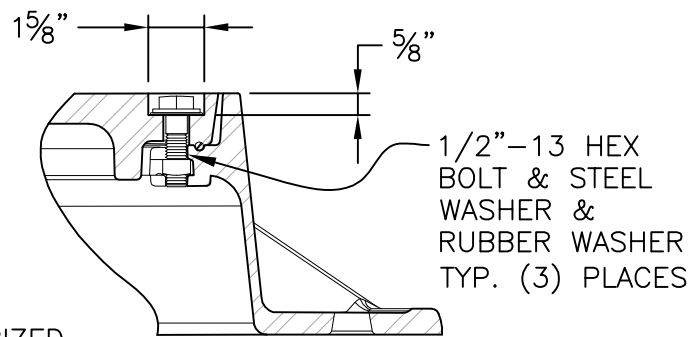
NONSKID PATTERN



SECTION B-B
NTS



SECTION A-A
NTS



BOLT DETAIL
NTS

RUBBERIZED GASKET, SEE NOTE 4

NOTES:

- COVERS SHALL HAVE THEIR USE CAST IN 2" RAISED LETTERS: 'SEWER' FOR SANITARY SEWERS, 'DRAIN' FOR STORM SEWERS AND 'WATER' FOR WATER CONVEYANCE. THE WORDS 'CONFINED SPACE PERMIT REQUIRED' SHALL BE CAST IN 1" LETTERS AS SHOWN.
- GRAY OR DUCTILE IRON FRAME AND DUCTILE IRON COVER WITH MINIMUM WEIGHTS AS FOLLOWS:
FRAME = 210 LBS.
COVER = 150 LBS.
- PROVIDE SLIP RESISTANT COATING IN PAVED AREAS.
- WHEN CALLED FOR IN THE CONTRACT DOCUMENTS, INSTALL INFRA-RISER PRODUCT NUMBER IC2431F0050F BY EJCO PER MANUFACTURER RECOMMENDATIONS (OR APPROVED EQUAL).

APPROVED BY CITY ENGINEER:

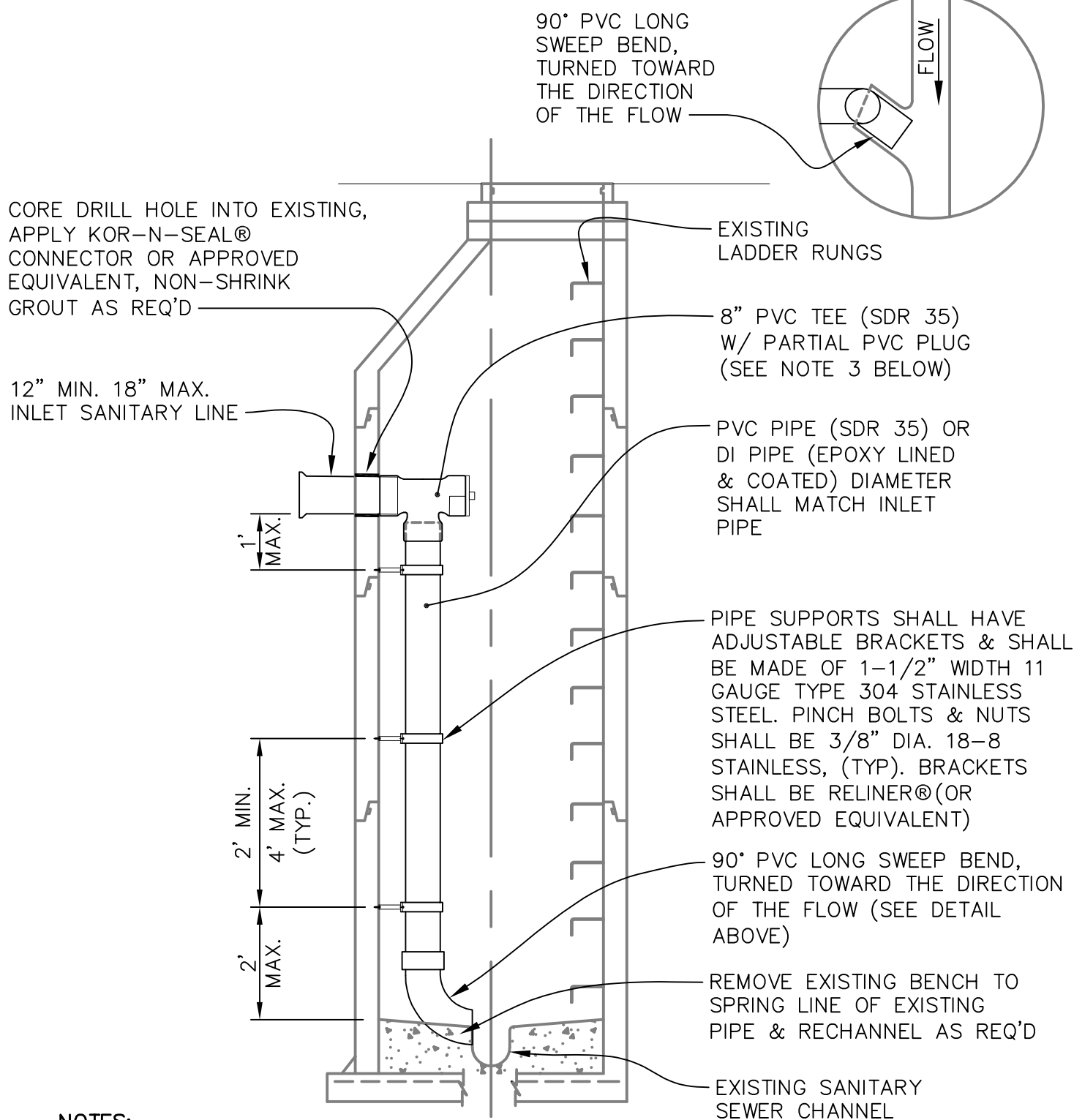
DATE:
01/05/2021



24" DIA. MANHOLE
FRAME AND COVER

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: S-04.4



NOTES:

1. TYPE 1 MANHOLE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. DETAIL MAY ALSO BE APPLIED TO TYPE 2 & 3 MANHOLES.
2. DROP CONNECTIONS TO EXISTING 48" OR LARGER MANHOLES ONLY WITH ENGINEER APPROVAL.
3. PLUG TO BE CUT TO LEAVE 60% OF PIPE DIAMETER OPEN FOR MAINTENANCE ACCESS.

APPROVED BY CITY ENGINEER:

DATE:
01/05/2021



RETROFIT EXISTING MANHOLE
WITH INSIDE DROP

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: S-05.2

NOTE:

CITY ENGINEER APPROVAL IS
REQUIRED BEFORE USING THIS
DETAIL

MANHOLE RING &
COVER ADJUSTMENT
SHALL CONFORM TO
STD DETAIL T-05

LEVELING BRICKS OR GRADE
RINGS AS REQUIRED. 3000 PSI
SMALL AGGREGATE CONCRETE
BETWEEN EACH RING

LOCKING MANHOLE
RING & COVER SHALL
CONFORM TO STD
DETAIL S-04

FINISH
GRADE

PRECAST CONCENTRIC CONE

FULL DEPTH
CAHNNEL

HAND HOLD
12" O.C.
(1 STEP MIN.)

1/2"/FT.
(TYP)

4"
TYP.

5"
TYP.

GROUT
FILLET (TYP)

FIELD CONSTRUCT 3000
PSI SMALL AGGREGATE
CONCRETE CHANNEL
AND SHELF TO CROWN
OF THE PIPE

REBAR #4 @ 12" EW

RUBBER GASKET

8"-12" DIA.
PIPE

5'-6" DIA. CEMENT
CONCRETE BASE, CL.
3000, CAST IN PLACE

48" DIA.

18" TO 36"

32" MIN.
50" MAX.

12"
MIN.

ALTERNATE:

MANUFACTURED BASE WITH FLAT TOP,
FRAME AND COVER IS ACCEPTABLE

APPROVED BY CITY ENGINEER:

DATE:

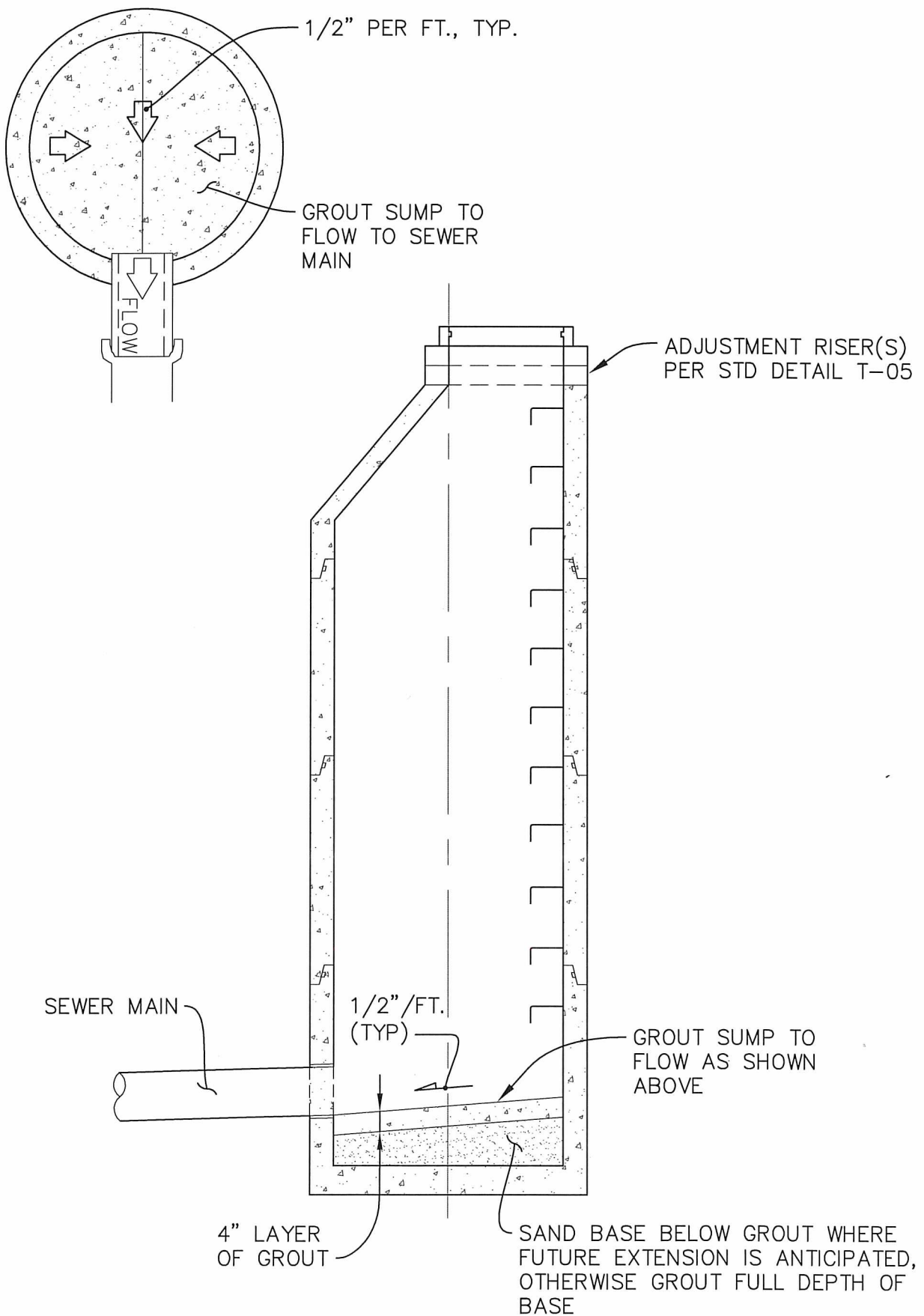
8/5/2016



EXTRA SHALLOW
MANHOLE DETAIL

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: S-06.1



APPROVED BY CITY ENGINEER:

DATE:

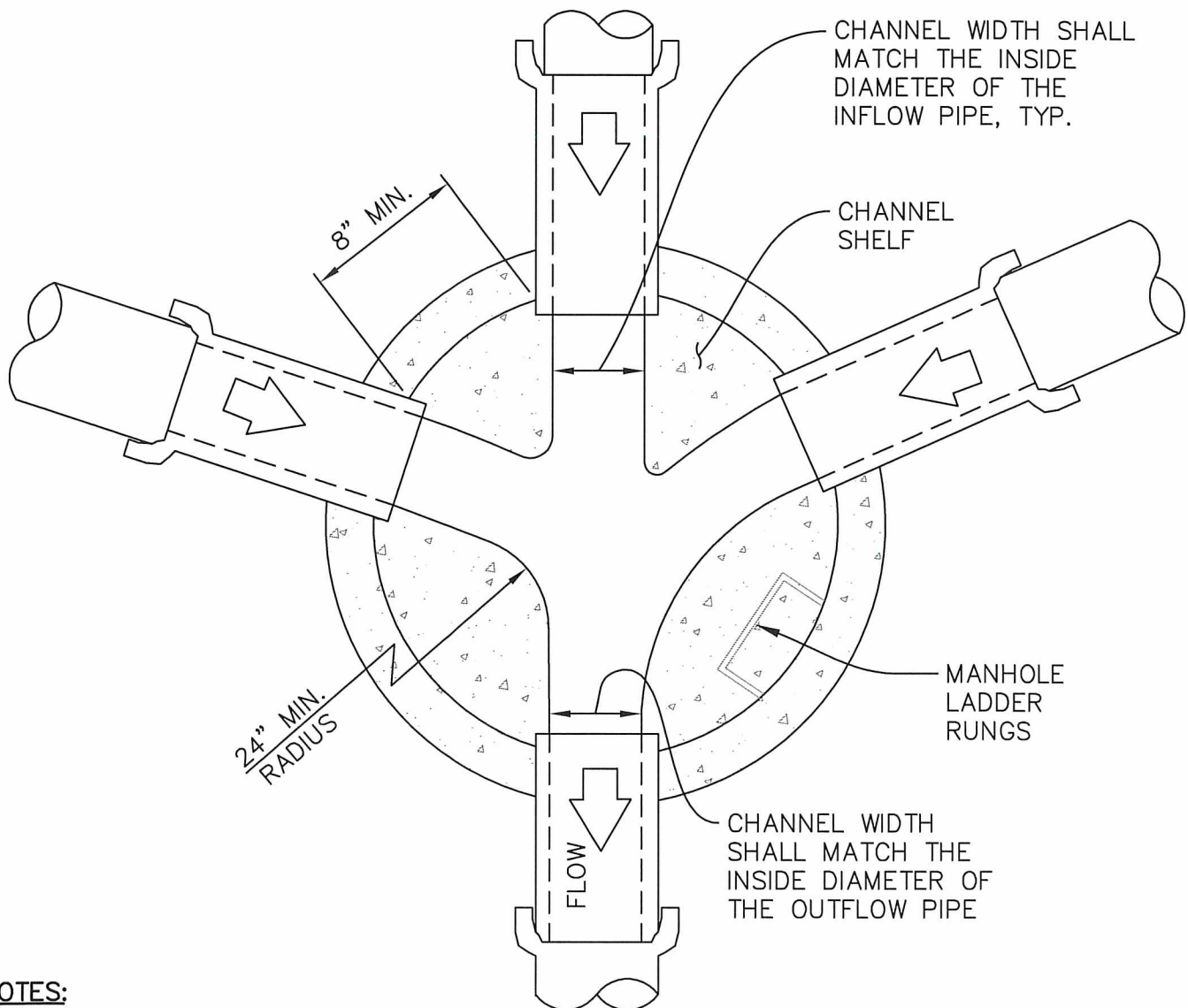
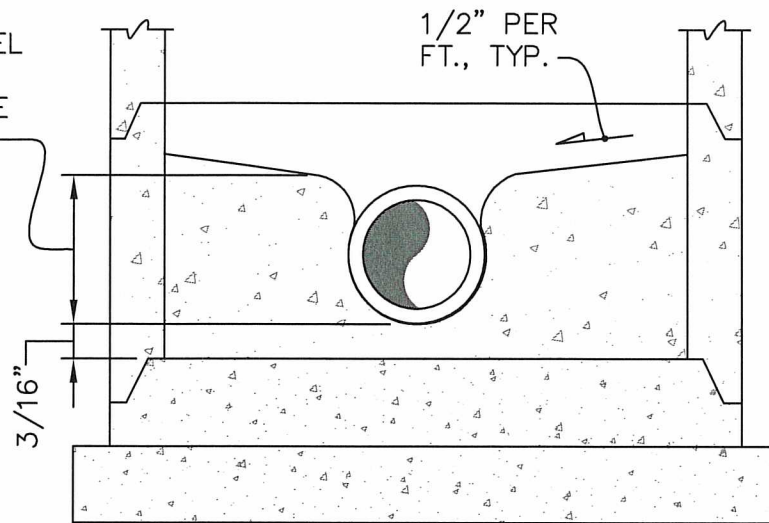


MANHOLE AT END OF
SANITARY SEWER LINE

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: S-07.2

FULL DEPTH CHANNEL SHALL MATCH THE LARGEST INSIDE PIPE DIAMETER



NOTES:

1. NO STEPS OVER PIPES OR MANHOLE CHANNELS. WHEN POSSIBLE, STEPS SHALL BE POSITIONED OVER THE LARGEST BENCH AREA.
2. FAST SETTING CONCRETE SHALL NOT BE USED.

APPROVED BY CITY ENGINEER:

DATE:

8/5/2016



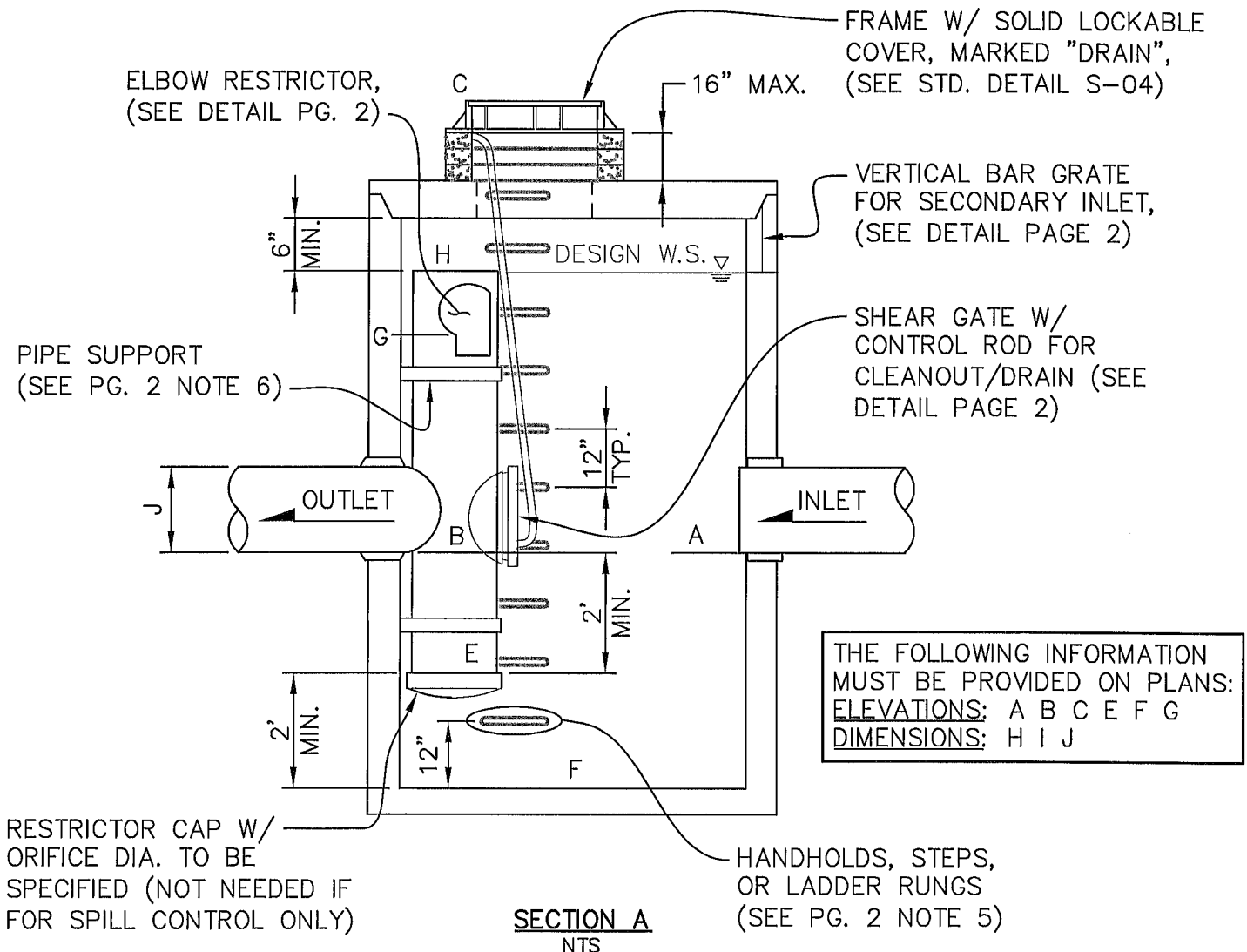
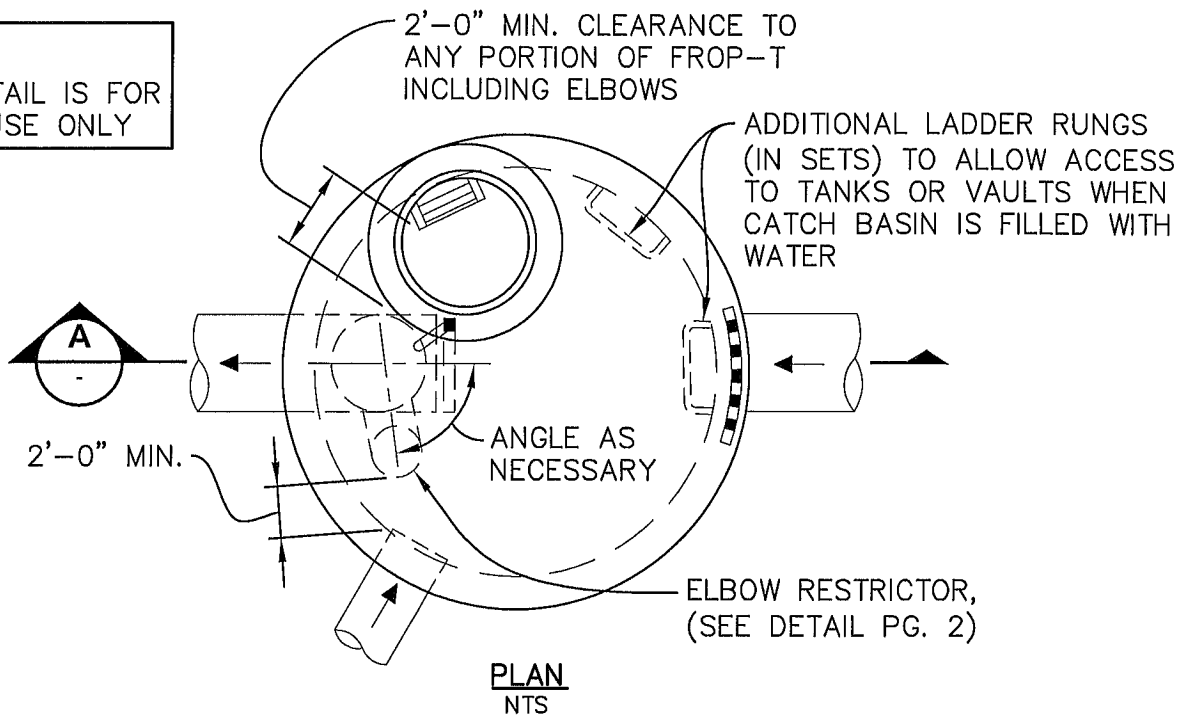
MANHOLE CHANNEL
CONSTRUCTION

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: S-08.1

NOTE:

THIS DETAIL IS FOR
STORM USE ONLY



PAGE 1 OF 2

APPROVED BY CITY ENGINEER:

DATE:

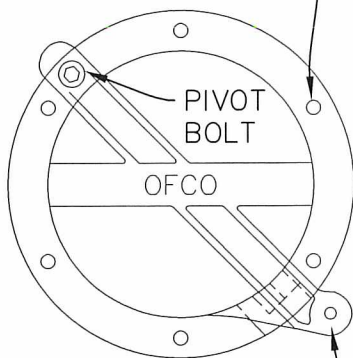


FLOW RESTRICTOR

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: S-09.2

$\frac{1}{2}$ " ϕ THRU ON $10\frac{3}{4}$ "
BC (6 PLACES)

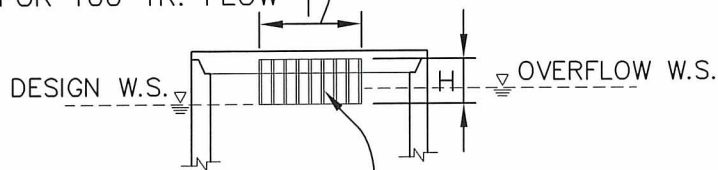


DRILL FOR $\frac{7}{16}$ -14
UNC 2AX $\frac{1}{4}$ " HEX
HEAD CAP SCR W/
ESNA LOCK NUT, OR
APPROVED EQUIVALENT

SHEAR GATE

NTS

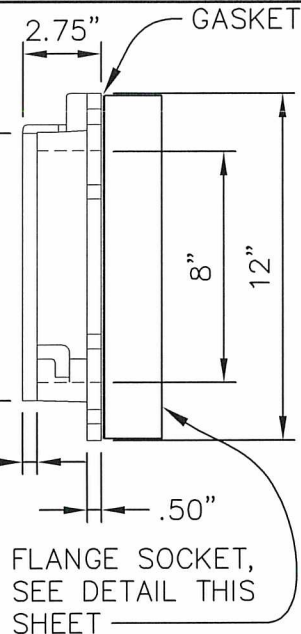
CIRCUMFERENCE LENGTH
OF OPENING SHALL BE
SIZED FOR 100 YR. FLOW



$\frac{3}{4}$ " ϕ VERTICAL BAR
GRATE @ 4" O.C. FOR
SECONDARY INLET

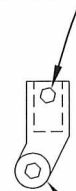
VERTICAL BAR GRATE

NTS

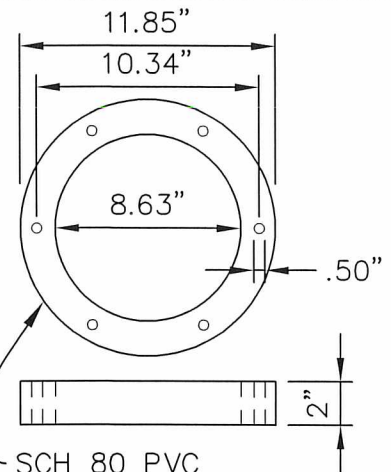


FLANGE SOCKET,
SEE DETAIL THIS
SHEET

$1\frac{1}{16}$ " x $1\frac{1}{2}$ "
DP SOCKET
DRILL FOR
 $\frac{1}{4}$ " MAC SCR
& ESNA NUT



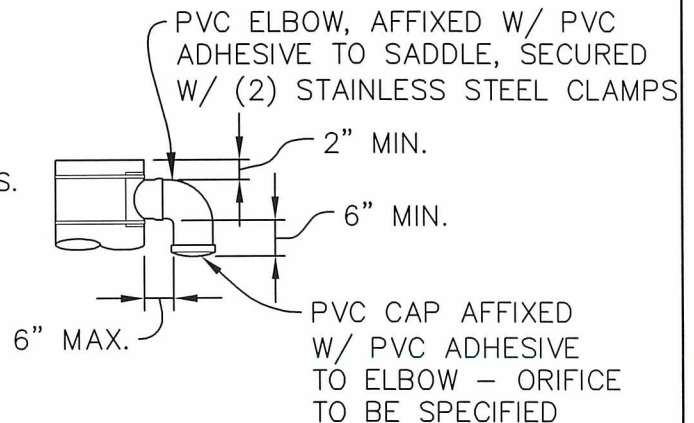
DRILL THRU
FOR $\frac{7}{16}$ " CAP
SCR



SCH 80 PVC
VAN STONE FLANGE
SOCKET & GASKET

FLANGE SOCKET

NTS



ELBOW RESTRICTOR

NTS

NOTE:

THIS DETAIL
IS FOR STORM
USE ONLY

NOTES:

1. USE A MINIMUM OF 54" DIA. TYPE 2 CATCH BASIN.
2. OUTLET CAPACITY SHALL BE 100-YR. DEVELOPED PEAK FLOW.
3. RESTRICTOR TO BE MADE WITH NON-GASKETED PVC, SDR-35.
4. FLOW RESTRICTOR TO BE CONNECTED TO OUTLET PIPE WITH GASKETED CONNECTION OR ROMAC COUPLER.
5. BASIN LID FRAME AND LADDER RUNGS OR STEPS ARE OFFSET SO THAT:
 - A. RESTRICTOR IS VISIBLE FROM TOP.
 - B. ACCESS SPACE IS CLEAR OF RISER AND RESTRICTOR.
 - C. COVER FRAME IS CLEAR OF CURB.
6. PROVIDE AT LEAST TWO 3"x0.090 GAUGE TYPE 304 STAINLESS STEEL SUPPORT BRACKET EPOXY ANCHORED 2" INTO CONCRETE WALL WITH MAX. 3' VERTICAL SPACING.
7. LOCATE ELBOW RESTRICTOR AS NECESSARY TO PROVIDE MINIMUM CLEARANCE AS SHOWN. PIPE SIZES AND SLOPE PER PLAN. SHOW ALLOWABLE DISCHARGE "Q"

PAGE 2 OF 2

APPROVED BY CITY ENGINEER:

DATE:

Jacob [Signature] 12/26/17

CITY OF
AUBURN
WASHINGTON

FLOW RESTRICTOR

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: S-09a.2

1. STRUCTURE SHALL BE MONOLITHIC AIR-ENTRAINED CLASS 3000 CONCRETE.
2. HOT DIP GALVANIZE C6x8.2 CHANNEL & ANCHOR BOLTS AFTER FABRICATION.



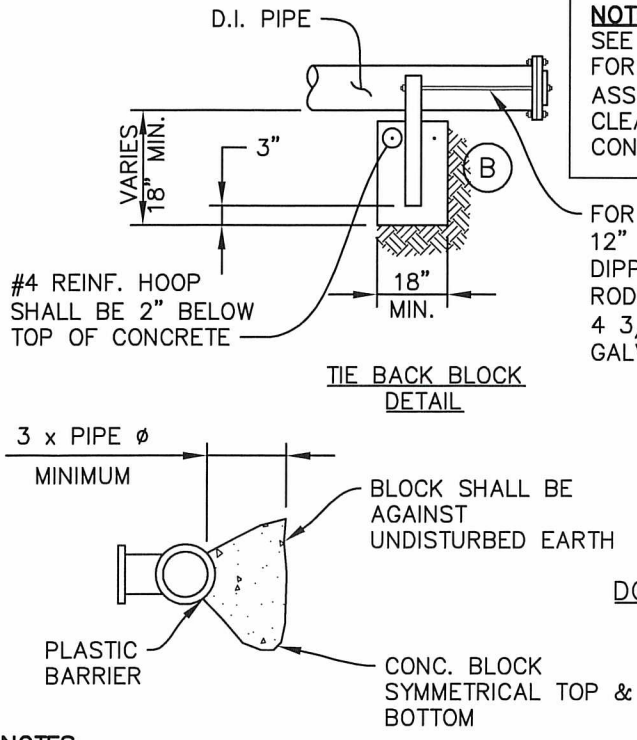
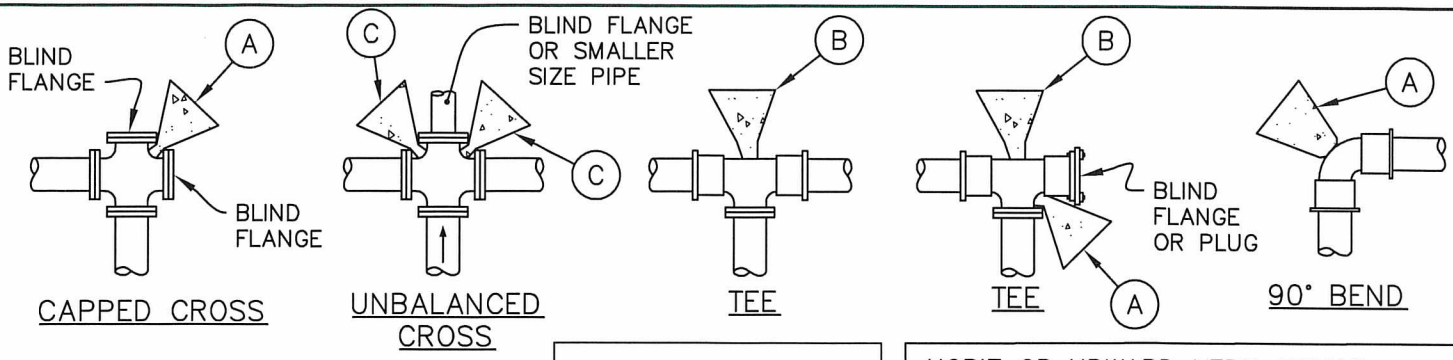
DATE: _____

2/20/2018

COVERED CURB OPENING
INLET

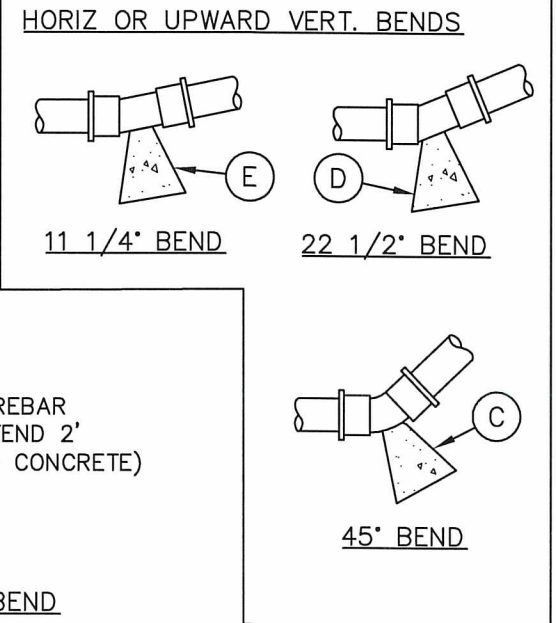
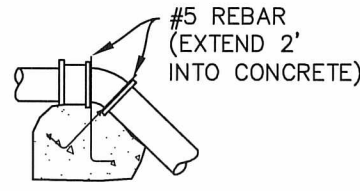
COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: S-10.1



NOTE:
SEE STD. DETAIL W-03 FOR TYPICAL BLOW OFF ASSEMBLY. MAINTAIN 2" CLEARANCE BETWEEN CONCRETE AND PIPE

FOR PIPE SIZES UNDER 12" USE 2 3/4" ϕ HOT DIPPED GALV. THREADED RODS FOR 12" & 14" USE 4 3/4" ϕ HOT DIPPED GALV. RODS

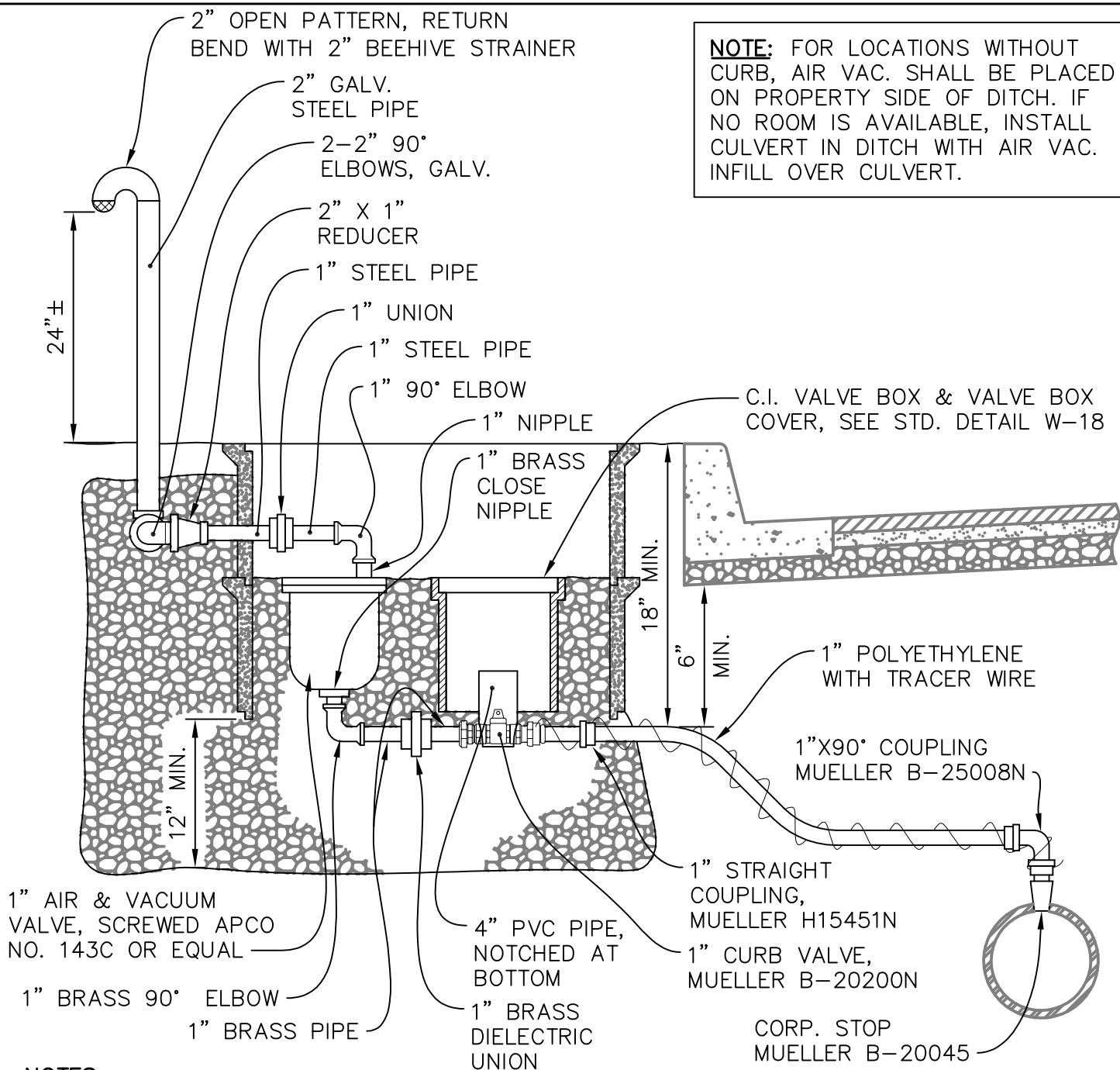


NOTES:

1. BEARING AREA OF CONC. THRUST BLOCK IS BASED ON 200 PSI PRESSURE AND SAFE SOIL BEARING LOAD OF 2000 PSF.
2. AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZES, PRESSURES, AND SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF 1/4 SQUARE FOOT BEARING AGAINST THE FITTING.
4. THE BLOCK SHALL BEAR AGAINST THE FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP AND DISMANTLING OF JOINT.
5. THE CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
6. USE 2" THICK STYROFOAM TO FORM THE CONCRETE BLOCKING. PLASTIC SHALL BE INSTALLED BETWEEN ALL CONCRETE BLOCKING AND FITTINGS.
7. RESTRAINED JOINTS ARE REQUIRED WHERE BEARING SOILS OR FILL MATERIAL ARE DETERMINED BY THE ENGINEER TO BE UNSUITABLE TO PROVIDE ADEQUATE BEARING LOAD, OR THIS SOIL HAS BEEN DISTURBED.

THRUST BLOCK TABLE					
MIN. BEARING AGAINST UNDISTURBED SOIL					
PIPE SIZE	(A) SQ. FT.	(B) SQ. FT.	(C) SQ. FT.	(D) SQ. FT.	(E) SQ. FT.
4"	3	3	2	2	2
6"	4	3	2	2	2
8"	7	5	4	2	2
10"	11	8	6	3	2
12"	16	11	9	5	3
14"	22	15	12	6	3
16"	29	20	16	8	4
18"	36	25	20	10	5
20"	45	32	24	13	6
22"	54	38	29	15	8
24"	64	45	35	18	9
28"	87	62	48	24	12
30"	101	71	55	28	14
36"	145	102	78	40	20
42"	197	139	107	55	27
48"	257	181	140	71	36

Plotted by: Craig Dobyns on 8/10/2016 File location: M:\Construction Standard Details\Approved Drawing Files (dwg)\Water\STDETL-W-01.1



NOTES:

1. AIR VALVE TO BE INSTALLED IN 17" X 30" HUBBELL QUAZITE OR ARMORCAST METER BOX W/ DUCTILE COVER, EAST JORDAN IRON WORKS (OR APPROVED EQUIVALENT).
2. BED WITH $\frac{3}{4}$ " WASHED ROCK, PASSING $1\frac{1}{2}$ " AND RETAINED ON $\frac{1}{4}$ " MESH FOR DRAIN.
3. POLYETHYLENE PIPE SHALL BE AS SPECIFIED IN SECTION 9-30.6(3) OF THE CONSTRUCTION STANDARDS AND THE CONTRACT PROVISIONS.
4. DIELECTRIC UNIONS ARE REQUIRED FOR JOINING DISSIMILAR MATERIAL TYPES.
5. MAINTAIN POSITIVE GRADE FROM MAIN TO VALVE.
6. IN LIEU OF 2" BEEHIVE STRAINER, CONTACT CITY WATER DEPT. FOR LIST OF DOH APPROVED STRAINERS.

APPROVED BY CITY ENGINEER:

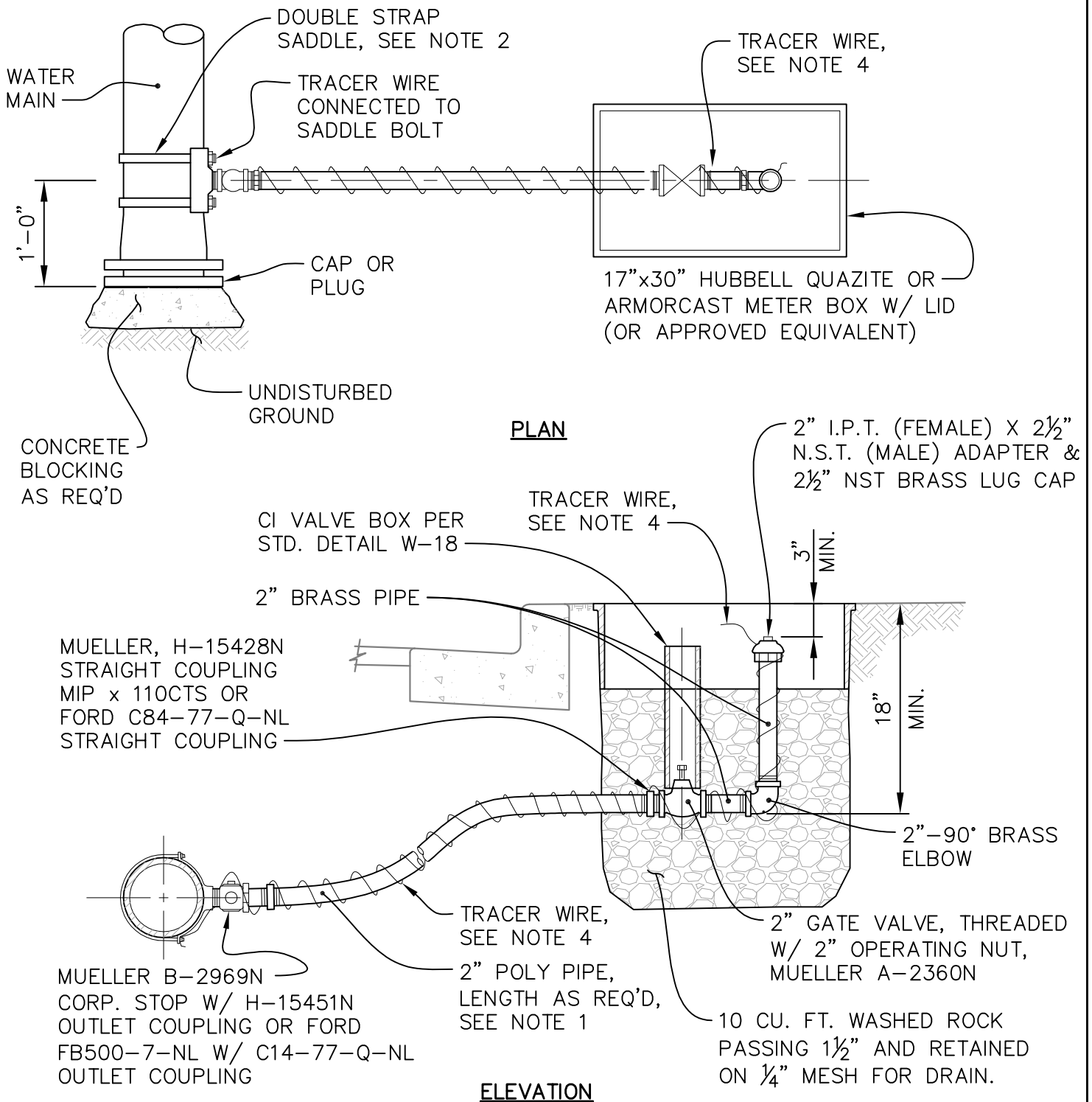
DATE:
01/05/2021



TYPICAL AIR AND VACUUM
RELIEF VALVE DETAIL

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: W-02.3



NOTES:

1. 2" POLY PIPE SHALL BE AS SPECIFIED IN SECTION 9-30.6(3) OF THE CONSTRUCTION STANDARDS AND THE CONTRACT PROVISIONS.
2. SADDLE SHALL BE AS SPECIFIED IN SECTION 9-30.6(1) OF THE CONSTRUCTION STANDARDS AND THE CONTRACT PROVISIONS.
3. FOR LOCATIONS WITHOUT CURB, BLOWOFF SHALL BE PLACED ON PROPERTY SIDE OF THE DITCH. IF NO ROOM IS AVAILABLE, INSTALL CULVERT IN DITCH W/ BLOWOFF INFILL OVER CULVERT.
4. TRACER WIRE SHALL BE INSULATED #10 COPPER WIRE, BARED AT ENDS.

APPROVED BY CITY ENGINEER:

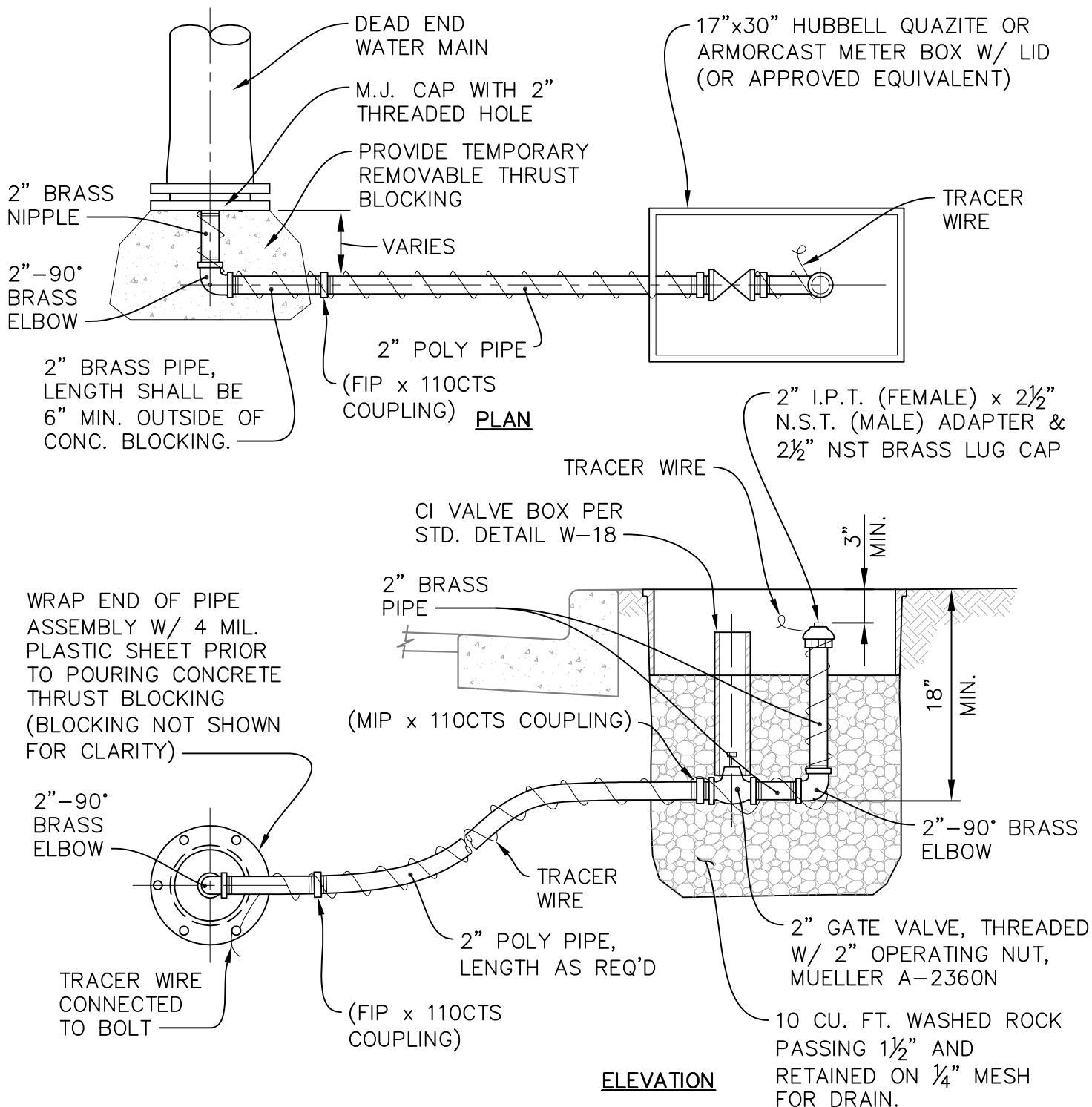
DATE:
01/05/2021



2" PERMANENT BLOW OFF
ASSEMBLY

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: W-03.3



NOTES:

1. 2" POLY PIPE SHALL BE AS SPECIFIED IN SECTION 9-30.6(3) OF THE CONSTRUCTION STANDARDS AND THE CONTRACT PROVISIONS.
2. TEMPORARY BLOWOFFS SHALL BE USED ON ALL DEAD END WATERLINES WITH LOCATION OF BLOWOFF BOX AS SHOWN ON THE PLAN OR WHERE DIRECTED BY THE ENGINEER.
3. TRACER WIRE SHALL BE INSULATED #10 COPPER WIRE, BARED AT ENDS.
4. GATE VALVE SHALL BE AS SPECIFIED IN SECTION 9-30.3(1) OF THE CONSTRUCTION STANDARDS AND THE CONTRACT PROVISIONS.

APPROVED BY CITY ENGINEER:

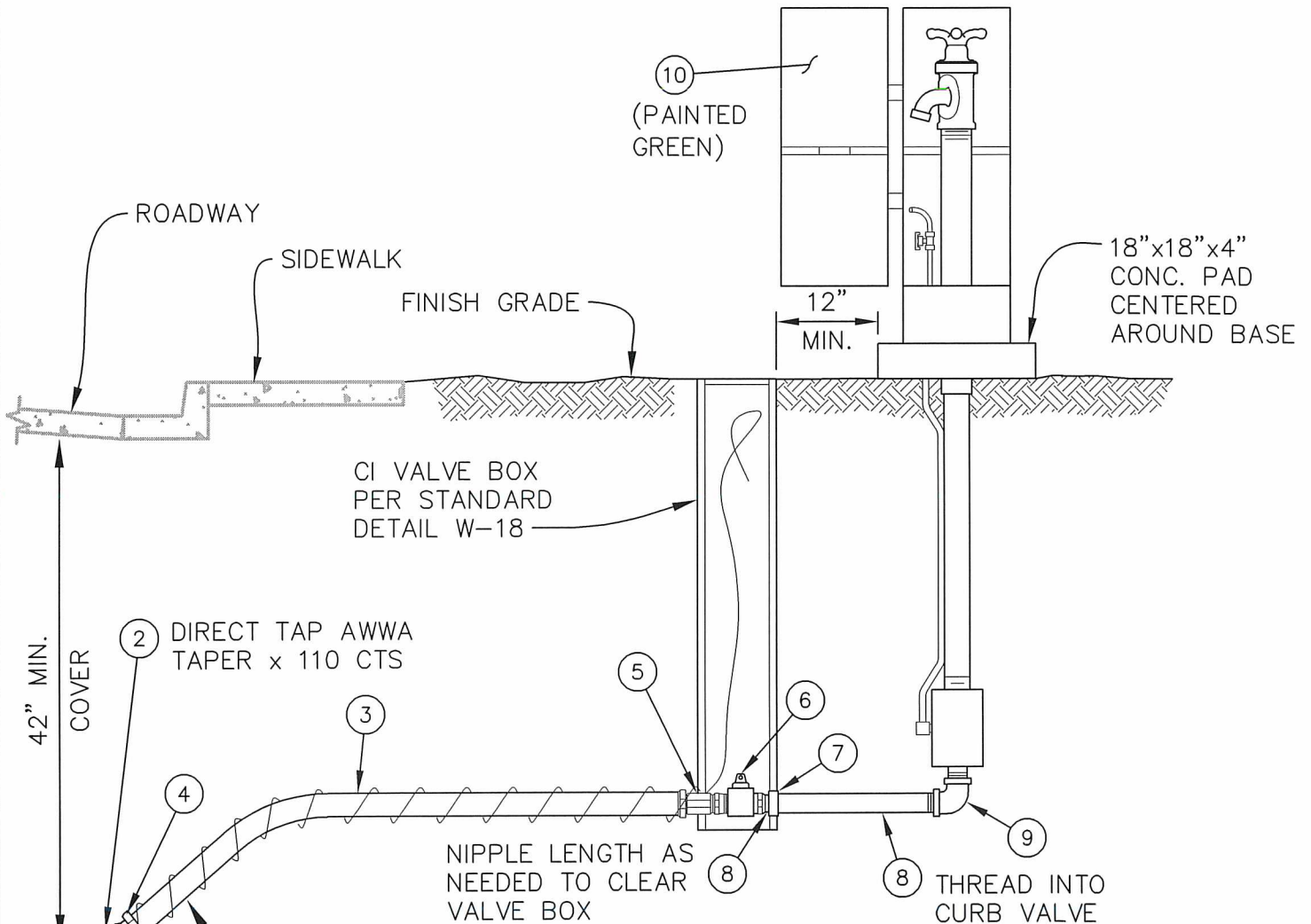
DATE:
01/05/2021



TEMPORARY BLOW OFF

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: W-04.3



* SADDLES FOR 1½" OR 2" PIPE TAPS SHALL BE EPOXY COATED OR E-COATED DUCTILE IRON W/ DOUBLE STAINLESS STEEL STRAPS & NEOPRENE GASKETS. SADDLES SHALL HAVE I.P.S. FEMALE THREADS

MATERIAL LIST			
ITEM NO.	DESCRIPTION	FORD PART #	MUELLER PART #
* 1	1" SADDLE I.P.T. MIPx110 CTS	N/A	N/A
2	1" CORP STOP	FB1000-4-Q	B-25008N
3	1" TYPE K COPPER	N/A	N/A
4	1" FIP COMPRESSION ADAPTOR	C14-44-Q-NL	H-15451N
5	1" COMPRESSION x 1" MIP	C84-44-Q-NL	H-15428N
6	1" BALL CURB FIP x FIP	B11-444W-NL	B-20200N
7	1" BRASS UNION	N/A	N/A
8	1" BRASS NIPPLE	N/A	N/A
9	1" 90° BRASS STREET ELL	N/A	N/A
10	KUPFERLE ECLIPSE #88-SS	N/A	N/A

NOTES:

- ALL PIPE AND FITTINGS TO BE ASSEMBLED W/ TEFLON AND PIPE DOPE UNLESS OTHERWISE NOTED.
- SERVICE LINES SHALL BE INSTALLED PERPENDICULAR TO THE WATER MAIN.
- THE SERVICE LINE SHALL BE INSTALLED TO ALLOW FOR THE FAR SIDE OF THE SAMPLE STATION TO BE INSTALLED IN THE ROW OR EASEMENT LINE, UNLESS OTHERWISE DIRECTED BY THE CITY.

APPROVED BY CITY ENGINEER:

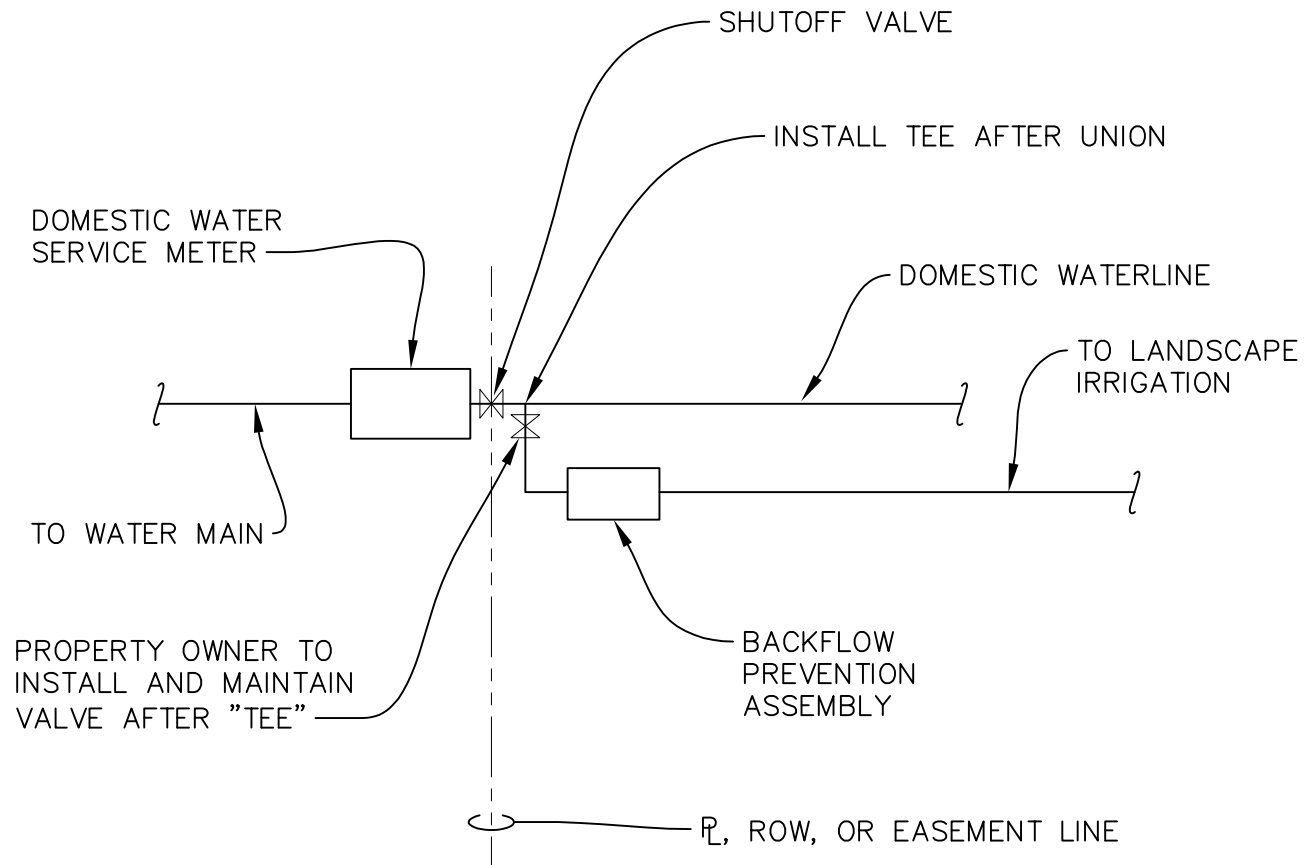
DATE:

CITY OF
AUBURN
WASHINGTON

WATER SAMPLING
STATIONING DETAIL

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: W-05.2



PLAN
NTS

NOTES:

1. BACKFLOW ASSEMBLY SHALL BE PER DESIGN STANDARDS.
2. THIS DETAIL IS APPLICABLE TO SINGLE FAMILY RESIDENCE ONLY.

APPROVED BY CITY ENGINEER:

DATE:
01/05/2021



3/4" TO 2" IRRIGATION FROM DOMESTIC
SERVICE LINE (SINGLE FAMILY)

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: W-06.3



1. HYDRANT SHALL BE LOCATED WITHIN THE LANDSCAPE STRIP. WHERE LANDSCAPE STRIP IS NOT PRESENT OR IS LESS THAN 5' WIDE, HYDRANT AND PAD SHALL BE PLACED BEHIND THE SIDEWALK IN R.O.W. OR EASEMENT.

2. WHERE NO CURB & GUTTER IS INSTALLED, FIRE HYDRANT SHALL BE LOCATED (IN RELATION TO STREET CENTER LINE) AS INDICATED ON THE DRAWINGS.

3. HYDRANTS SHALL HAVE 2-2 1/2" NATIONAL STANDARD THREAD (NST) HOSE PORTS & 1-4 1/2" NST WITH 5" STORZ ADAPTER AND CAP.

4. MEGA-LUGS OR PUSH-ON JOINT RESTRAINTS MAY BE USED IN PLACE OF SHACKLE RODS WITH PRIOR ENGINEER APPROVAL.

5. ENSURE 5' MINIMUM CLEARANCE TO OBSTACLES FROM CENTERLINE OF HYDRANT.

6. REMOVE CHAINS.

STANDARD DETAIL: W-07.2

ROCK WALL
OR OPTIONAL
KEYSTONE BLOCKS

GUARD POST, 9" ROUND X 6'-0" LONG
REINFORCED CONCRETE, PER SECTION
9-30.5(6) OF THE STANDARD
SPECIFICATIONS TYPICAL OF 2.

MIN. AREA OF LEVEL
GROUND SURFACE

FIRE HYDRANT SEE
STD. DETAIL W-07

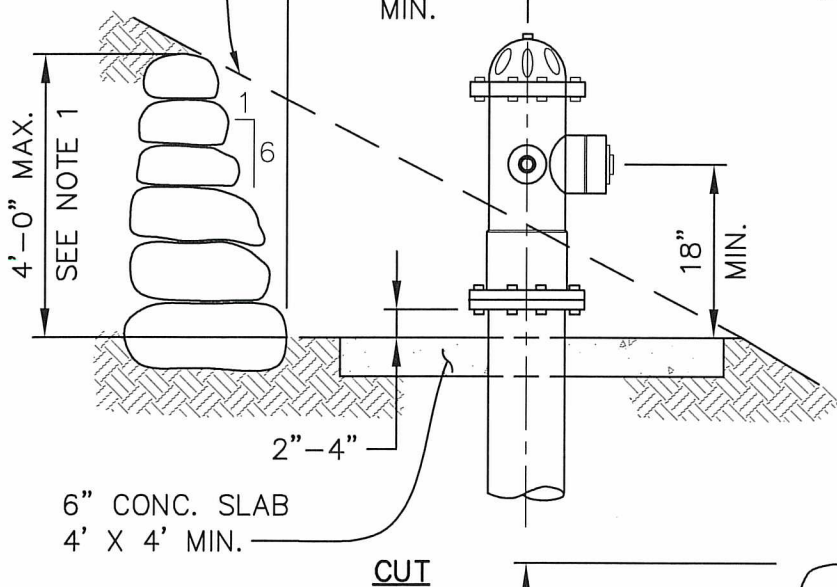
5' RADIUS,
CLEAR DISTANCE

EXISTING
GROUND
SURFACE

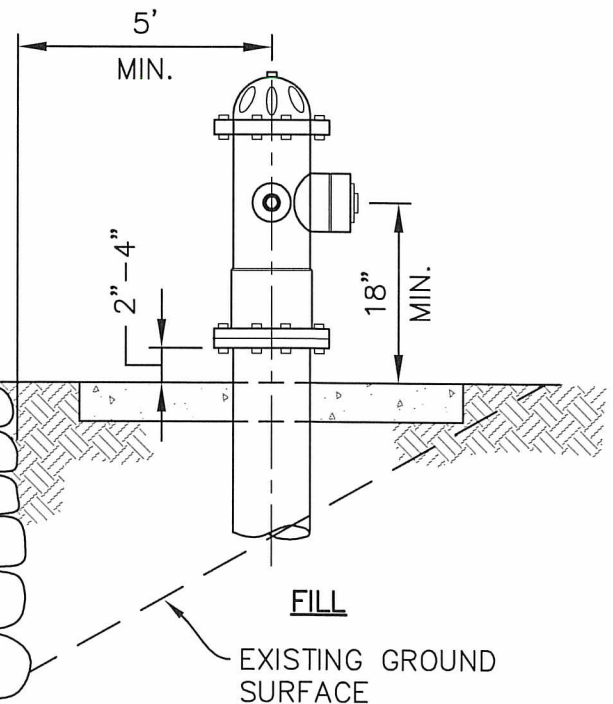
PLAN

GUARD POST (ONLY
WHEN SPECIFICALLY
REQUIRED AS SHOWN
IN THE PLAN)

**GUARD POST
ELEVATION**



CUT



FILL

EXISTING GROUND
SURFACE

NOTES:

1. SEE PLAN FOR WALLS
EXCEEDING 4'-0" IN
HEIGHT.

APPROVED BY CITY ENGINEER:

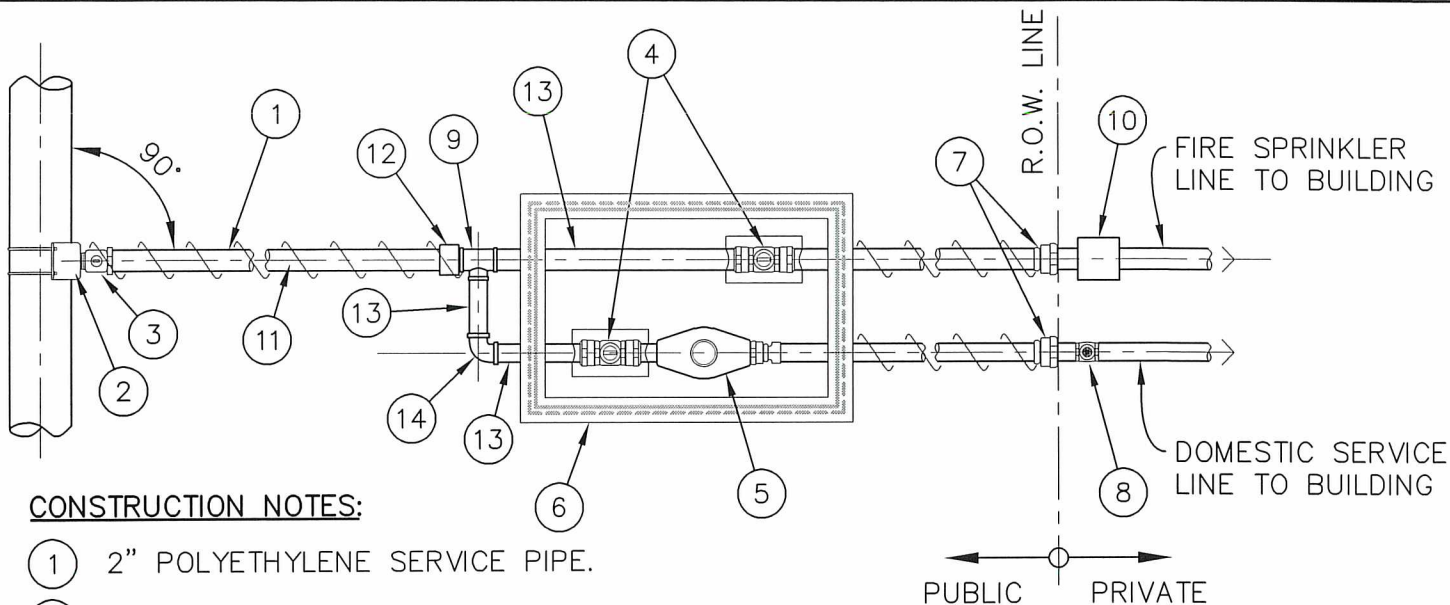
DATE
01/05/2021

CITY OF
AUBURN
WASHINGTON

FIRE HYDRANT LOCATION IN CUT
OR FILL W/ GUARD POSTS

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: W-08.1



CONSTRUCTION NOTES:

- (1) 2" POLYETHYLENE SERVICE PIPE.
- (2) 2" SADDLE.
- (3) 2" CORPORATION STOP.
- (4) CURB VALVE WITH COUPLINGS AND LOCK WING EARS, ENCASED VERTICALLY BY 3" DIA. SCH. 40 PVC PIPE, NOTCHED AT BOTTOM TO FIT OVER COUPLINGS. FIRE LINE PVC PIPE SHALL BE PAINTED RED TO IDENTIFY AS A FIRE LINE.
- (5) METER YOLK WITH SPACER PIPE W/ HOLE IN SPACER. DO NOT INSTALL GASKETS.
- (6) 17"x30" METER BOX.
- (7) ADAPTER COUPLING, TEMPORARILY CAP IF PRIVATE SIDE CONNECTION IS NOT READY.
- (8) SHUT OFF VALVE ON DOMESTIC LINE (CUSTOMER TO INSTALL AND MAINTAIN).
- (9) 2"x2"x*" TEE, WHERE * IS METER SIZE IN INCHES (1" MINIMUM) FOR DOMESTIC LINE.
- (10) BACKFLOW PREVENTION ASSEMBLY ON FIRE SPRINKLER LINE (CUSTOMER TO INSTALL AND MAINTAIN).
- (11) #10 INSULATED COPPER TRACER WIRE.
- (12) 2" ADAPTER (MIPxCOMP)
- (13) * BRASS NIPPLE, LENGTH AS NEEDED.
- (14) * BRASS ELBOW

NOTES:

1. THIS DETAIL IS APPLICABLE TO SINGLE FAMILY RESIDENCES ONLY.
2. CONNECTION TO CITY WATER MAIN PER CITY OF AUBURN REQUIREMENTS.
3. BACKFLOW PREVENTION ASSEMBLY SHALL BE PER DESIGN STANDARDS.
4. PLANS FOR SEPARATE FIRE SPRINKLER LINE MUST BE SUBMITTED AND APPROVED BY THE FIRE MARSHAL PRIOR TO INSTALLATION.
5. NO DETAIL IS REQUIRED FOR FLOW-THROUGH FIRE SPRINKLER SYSTEMS.
6. SEE STANDARD DETAIL W-15 FOR MATERIAL SCHEDULE.

APPROVED BY CITY ENGINEER:

DATE:

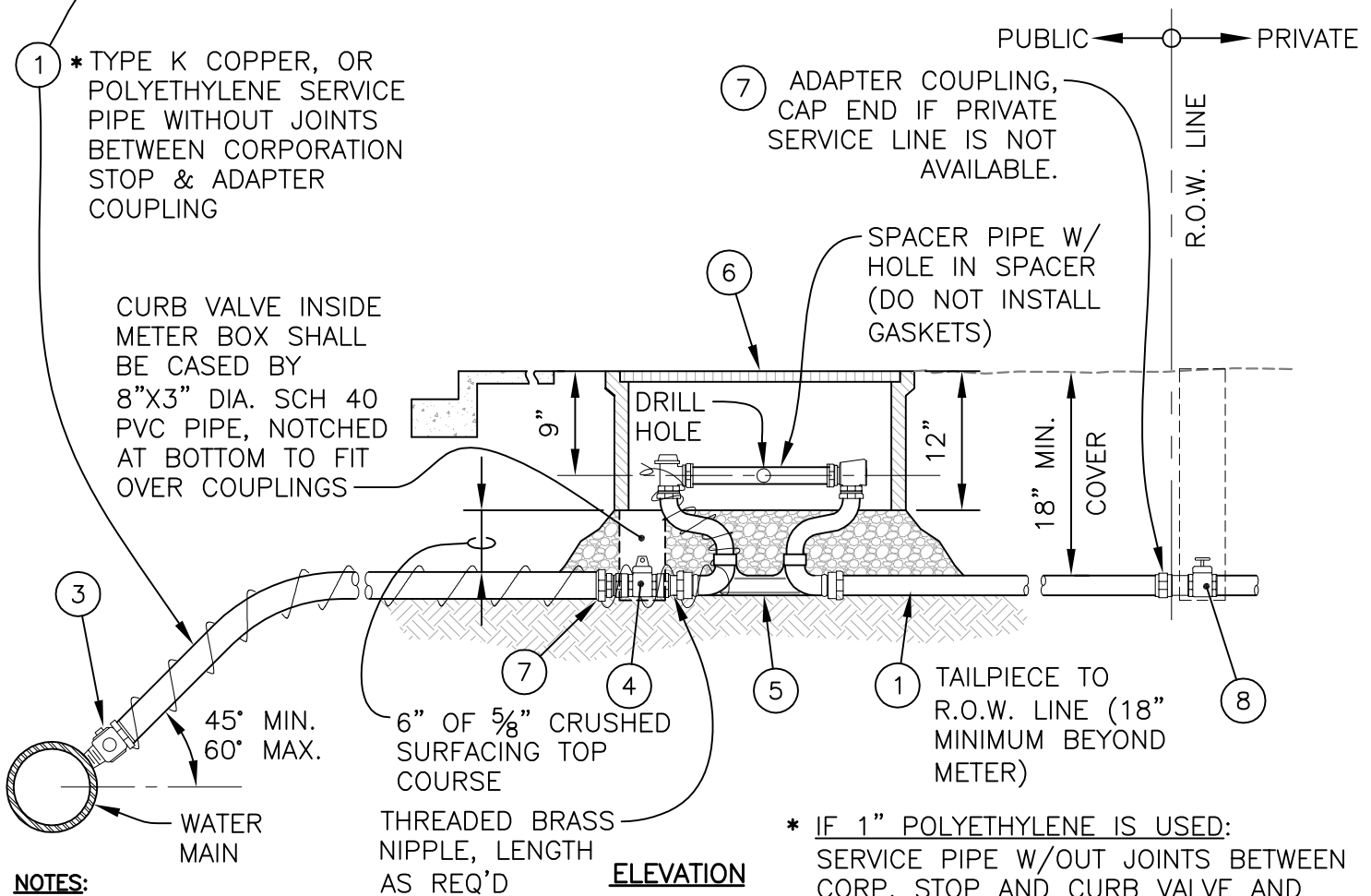
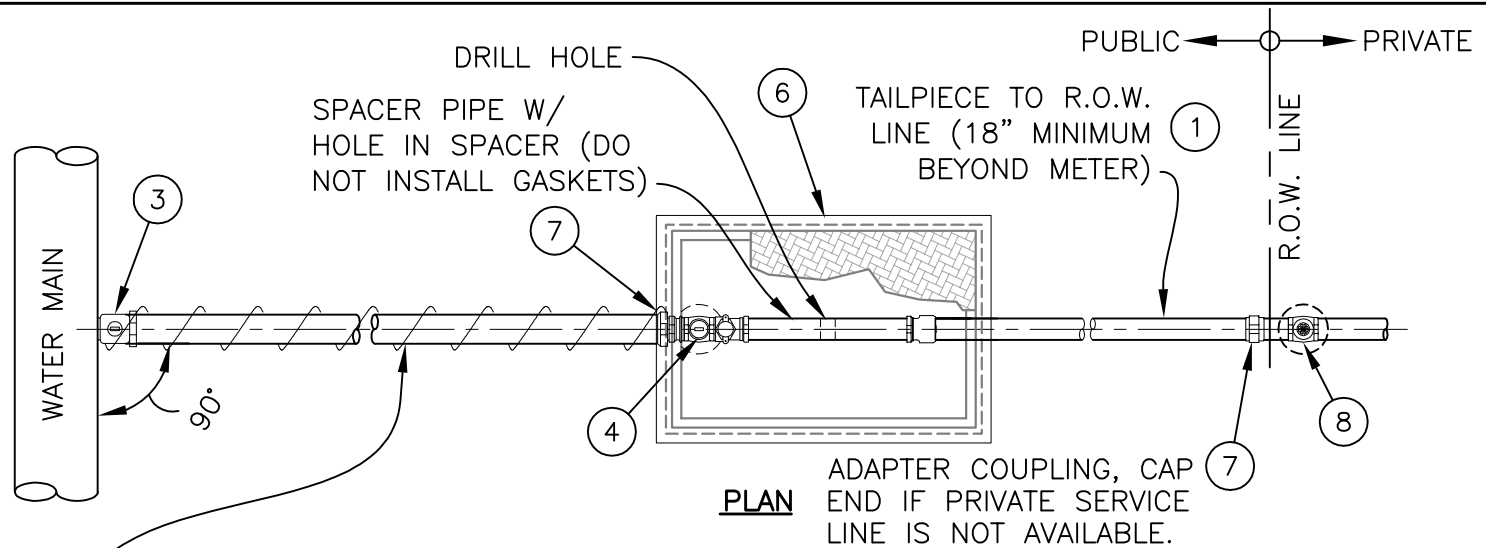


2" FIRE SPRINKLER LINES WITH
3/4" to 2" DOMESTIC SERVICE LINE

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: W-09.3

Plotted by: Craig Dobyns on 12/30/2020 File location: M:\Construction Standard Details\Current Working DWG\Water\STDETL-W-13.4



NOTES:

1. SEE STANDARD DETAIL W-15 FOR MATERIAL SCHEDULE.
2. ALL DOMESTIC SERVICE LINES FROM THE WATER MAIN, INCLUDING THE METER YOLK, SHALL BE A MINIMUM OF 1" IN DIAMETER.
3. METER PROVIDED BY CITY, CONNECTIONS MADE FROM EXISTING WATER MAIN SHALL BE INSTALLED BY THE CITY OF AUBURN AND PAID FOR BY THE APPLICANT OR CONTRACTOR.
4. METER LAY LENGTH 1" METER = 10-3/4"

* IF 1" POLYETHYLENE IS USED:
SERVICE PIPE W/OUT JOINTS BETWEEN
CORP. STOP AND CURB VALVE AND
WRAPPED W/ #10 INSULATED COPPER
TRACER WIRE. ATTACH BARE TRACER
WIRE TO CORP. STOP AND WRAP IT
AROUND THE HDPE PIPE AND METER
SETTER AS SHOWN W/ HIGH TORQUE
SMOOTH STAINLESS STEEL HOSE
CLAMPS. A MINIMUM OF 8" BARE WIRE
SHALL PROTRUDE PAST CLAMP AT THE
METER SETTER

APPROVED BY CITY ENGINEER:

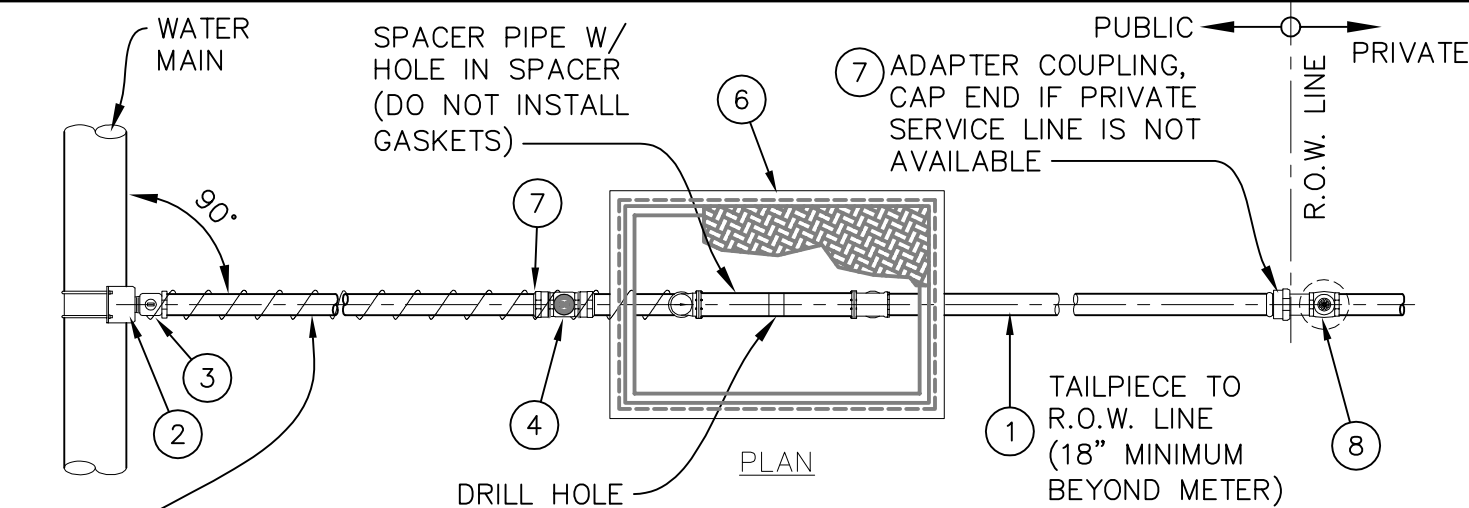
DATE:
01/05/2021



1" WATER SERVICE FOR
3/4" AND 1" METERS

PUBLIC WORKS DEPARTMENT

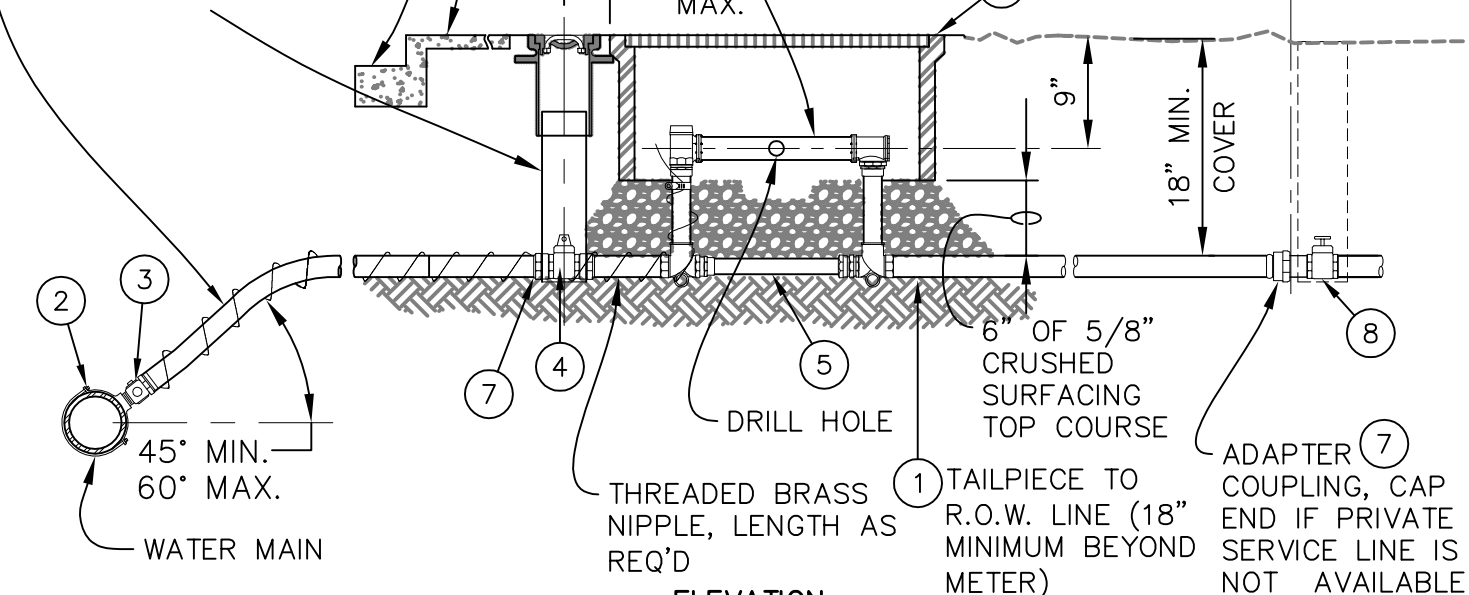
STANDARD DETAIL: W-13.4



1 SERVICE PIPE W/OUT JOINTS BETWEEN CORP. STOP AND CURB VALVE AND WRAPPED W/ #10 INSULATED COPPER TRACER WIRE. ATTACH BARE TRACER WIRE TO CORP. STOP AND WRAP IT AROUND THE HDPE PIPE AND METER SETTER AS SHOWN W/ HIGH TORQUE SMOOTH STAINLESS STEEL HOSE CLAMPS. A MINIMUM OF 8" BARE WIRE SHALL PROTRUDE PAST CLAMP AT THE METER SETTER

INSTALL CAST IRON VALVE BOX (8" LONG, TOP SECTION AND COVER) W/ 4" DIA. SCH 40 PVC PIPE. NOTCHED AT BOTTOM TO FIT OVER COUPLING

SPACER PIPE W/ HOLE IN SPACER OR ALL THREAD W/ WASHERS SET TO THE LAY LENGTH OF METER (DO NOT INSTALL GASKETS)



NOTES:

ELEVATION

1. SEE STANDARD DETAIL W-15 FOR MATERIAL SCHEDULE.
2. ALL DOMESTIC SERVICE LINES FROM THE WATER MAIN TO THE ADAPTER COUPLING, STRAIGHT COUPLING, OR CURB VALVE, SHALL BE A MINIMUM OF 1" IN DIAMETER.
3. METER PROVIDED BY CITY, CONNECTIONS MADE FROM EXISTING WATER MAIN SHALL BE INSTALLED BY THE CITY OF AUBURN AND PAID FOR BY THE APPLICANT OR CONTRACTOR.
4. METER LAY LENGTHS: 1.5" METER = 13" || 2" METER = 17"

APPROVED BY CITY ENGINEER:

DATE:
01/05/2021



1 1/2" & 2" WATER SERVICE

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: W-14.2

WATER SERVICE MATERIAL SCHEDULE

- ① THE CITY OF AUBURN ALLOWS 1-1/2" TO 2" POLYETHYLENE SDR-9 (IN COPPER TUBE SIZES) W/ STAINLESS STEEL LINERS IN ALL COUPLINGS & WRAPPED W/ A #10 INSULATED COPPER TRACER WIRE. FOR 1" COPPER, IT SHALL BE TYPE K COPPER TUBING W/OUT TRACER WIRE FOR WATER SERVICE & TAILPIECE CONNECTION, IN ACCORDANCE W/ STANDARD SPECIFICATION SECTION 9-30.6(3). ALL CONNECTIONS TO POLYETHYLENE OR COPPER TUBING SHALL BE W/ MUELLER 110 COMPRESSION CONNECTIONS OR EQUAL. TAILPIECE SHALL EXTEND TO R.O.W. LINE (18" MINIMUM BEYOND METER) & SHALL BE THE SAME SIZE AS THE SERVICE LINE.
- ② SADDLES FOR 1", 1-1/2", OR 2" PIPE TAPS SHALL BE EPOXY COATED OR E-COATED DUCTILE IRON W/ DOUBLE STAINLESS STEEL STRAPS & NEOPRENE GASKETS. SADDLES SHALL HAVE I.P.S. FEMALE THREADS.
- ⑧ CONTRACTOR SHALL FURNISH & INSTALL PRIVATE SERVICE LINE SHUT-OFF VALVE & RISER. FOR CAPITAL PROJECTS, SEE CONTRACT DOCUMENTS, OTHERWISE PROPERTY OWNER TO INSTALL PRIVATE SERVICE LINE SHUT-OFF VALVE AT POINT OF CONNECTION.

METER LOCATIONS:

- 1) WHERE LANDSCAPE STRIPS ARE PLANNED OR EXIST, THE METER & METER BOX WILL BE PLACED BETWEEN THE BACK OF THE CURB & THE SIDEWALK, ADJACENT TO THE SIDEWALK IF ROOM PERMITS;
- 2) WHERE THE SIDEWALK IS LOCATED ADJACENT TO THE BACK OF THE CURB OR THE LANDSCAPE STRIP IS TOO NARROW TO ACCOMMODATE THE METER BOX, THE METER & METER BOX WILL BE PLACED ADJACENT TO & AT THE BACK OF SIDEWALK;
- 3) WHERE METERS & METER BOXES ARE LOCATED IN THE STREET OR SIDEWALK OR IN LOCATIONS WHICH ARE SUBJECTED TO VEHICULAR TRAFFIC, INCLUDING DRIVEWAYS, ETC., A TRAFFIC BEARING METER BOX & LID OF APPROPRIATE LOAD RATING SHALL BE PROVIDED AS SPECIFIED (EAST JORDAN IRON WORKS, OR EQUAL).
- 4) LOCATE CURB VALVE IN THE METER BOX WHERE POSSIBLE & 1 FT. OUTSIDE IF NO ROOM INSIDE METER BOX IS AVAILABLE.
- 5) OFF STREET METER LOCATION SHALL BE APPROVED BY THE CITY.

SCHEDULE NO. & PART	SERVICE LINE SIZE & MUELLER/FORD CATALOG NO. OR APPROVED EQUAL		
	1"	1-1/2"	2"
③ CORP. STOP	DIRECT TAP OPTION: MUELLER B-25008N OR FORD FB1000-4-Q-NL SADDLE OPTION: MUELLER B-20013N W/ H-15451N OUTLET COUPLING OR FORD FB500-4-NL W/ C14-44-Q-NL OUTLET COUPLING	MUELLER B-2969N W/ H-15451N OUTLET COUPLING OR FORD FB500-6-NL W/ C14-66-Q-NL OUTLET COUPLING	MUELLER B-2969N W/ H-15451N OUTLET COUPLING OR FORD FB500-7-NL W/ C14-77-Q-NL OUTLET COUPLING
④ CURB VALVE	MUELLER B-20200N OR FORD B11-444W-NL	MUELLER B-20200N OR FORD B11-666W-NL	MUELLER B-20200N OR FORD B11-777W-NL
⑤ METER YOKE	MUELLER B-2404R-2N W/ H-14222N INLET & H-14227N OUTLET COUPLINGS, 12" RISER W/ MUELLER H-10879 5/8"x3/4"x1" ADAPTERS FOR 3/4" METERS	MUELLER B-2423-N W/ H-15428N OUTLET COUPLING OR FORD VBH76-12B-11-66-NL W/ C84-66-Q-NL OUTLET COUPLING, 12" RISER	MUELLER B-2423-N W/ H-15428N OUTLET COUPLING OR FORD VBH77-12B-11-77-NL W/ C84-77-Q-NL OUTLET COUPLING, 12" RISER
⑥ METER BOX	HUBBELL QUAZITE OR ARMORCAST (NOT PERMITTED FOR USE IN PEDESTRIAN PATHWAYS) 13"x24"x12" POLYMER CONCRETE BOX & COVER W/ READER LID & 2" AMR PORT W/ (2) 2 1/2 x 3 MOUSEHOLES (B03132412M)	HUBBELL QUAZITE OR ARMORCAST (NOT PERMITTED FOR USE IN PEDESTRIAN PATHWAYS), 17"x30"x12" POLYMER CONCRETE BOX & COVER W/ READER LID & 2" AMR PORT & W/ (2) 2 1/2 x 3 MOUSEHOLES (B03173012M)	
⑦ COUPLING	MUELLER H-15428N OR FORD C84-44-Q-NL	MUELLER H-15428N OR FORD C84-66-Q-NL	MUELLER H-15428N OR FORD C84-77-Q-NL
⑧ SHUT-OFF VALVE	MUELLER B-20200N W/ B-20298-99000 LEVER HANDLE, W/ 8" IRRIGATION BOX AND 6" PVC RISER		

APPROVED BY CITY ENGINEER:

DATE:
01/05/2021



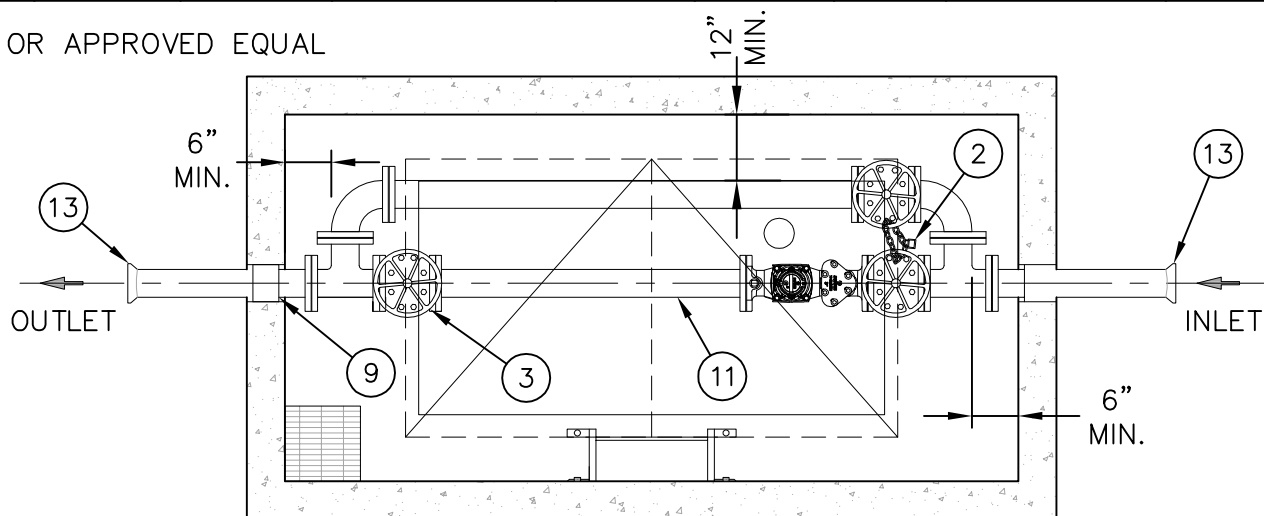
WATER METER LOCATION
& MATERIAL SCHEDULE

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: W-15.5

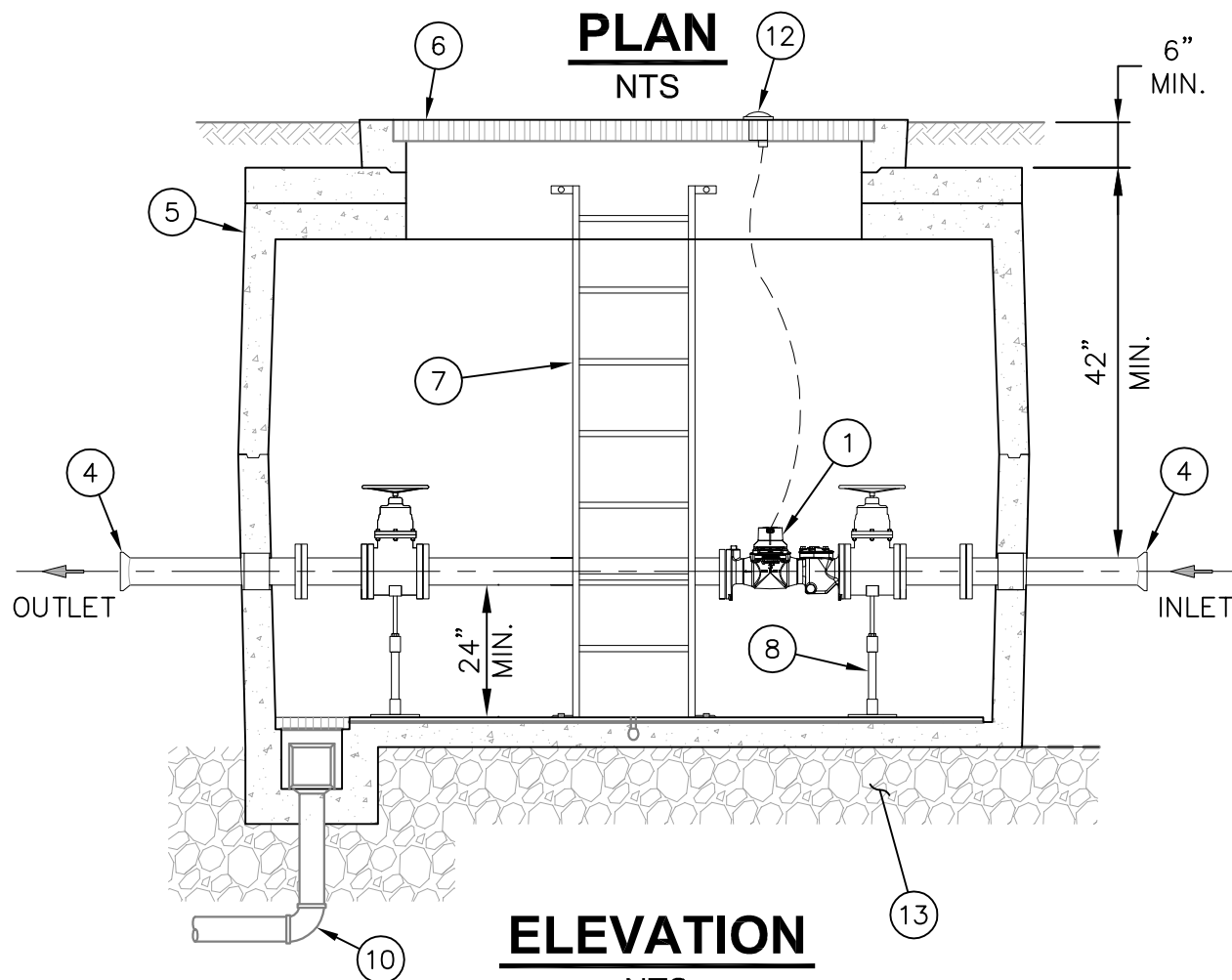
METER SIZE	MAIN LINE	BYPASS	METER LENGTH FLG. TO FLG.	MIN. LENGTH	MIN. WIDTH	MIN. HEIGHT	OLDCASTLE VAULT MODEL **	GRANITE VAULT MODEL **
3"	3" D.I.P.	3" D.I.P.	17"	8'-4"	4'-4"	6'-2"	4484-LA	4x8 MV
4"	4" D.I.P.	4" D.I.P.	20"	8'-4"	4'-4"	6'-2"	4484-LA	4x8 MV
6"	6" D.I.P.	6" D.I.P.	24"	10'-6"	5'-0"	6'-2"	5106-LA	5x10 MV
8"	8" D.I.P.	8" D.I.P.	30 1/8"	12'-0"	6'-0"	6'-5"	612-LA	6x12 MV
10"	10" D.I.P.	10" D.I.P.	41 7/8"	14'-0"	8'-0"	6'-5"	814-LA	8x14 MV

** OR APPROVED EQUAL



PLAN

NTS



ELEVATION

NTS

Page 1 of 2

APPROVED BY CITY ENGINEER:

DATE:
01/05/2021



3" OR LARGER WATER
METER INSTALLATION

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: W-16.3

BILL OF MATERIALS

PART NO.	QUANTITY	DESCRIPTION
(1)	1	METER PROVIDED BY CITY FOR CONTRACTOR INSTALLATION: SENSUS OMNI C2 COMPOUND METER OR APPROVED EQUAL FLANGED WITH BUILT-IN STRAINER AND ENCODERS COMPATIBLE WITH CURRENT SENSUS AMR/AMI SYSTEM
(2)	1	LOCK WITH CHAINS
(3)	3	AWWA C-509 OR C-515 GATE VALVE COMPLETE WITH HAND WHEEL
(4)	2	FIRST JOINT OUTSIDE VAULT REQUIRES FIELD LOK GASKET OR OTHER FORM OF JOINT RESTRAINT
(5)	1	PRECAST CONCRETE VAULT COMPLETE WITH COLLAR, C555 WHITE INTERIOR PAINT
(6)	1	36"x72" ALUMINUM HATCH H20-44 CLASS B, STATIC LOADING WITH HOLD OPEN ARM
(7)	1	O.S.H.A. APPROVED SAFETY LADDER W/ TELESCOPING SAFETY POST (IF VAULT IS OVER 30" DEEP). BOLT LADDER TO VAULT FLOOR AND TO VAULT WALL
(8)	2	GALVANIZED STEEL ADJUSTABLE PIPE SUPPORT
(9)	2	MEGALUG OR ROMAGRIP SEALED IN CONCRETE FILLING KNOCKOUT
(10)	1	SUMP DRAIN, CONNECT TO CITY STORM SYSTEM, IF GRAVITY DRAIN IS NOT FEASIBLE, A SUMP PUMP WITH CHECK VALVE ON DISCHARGE LINE IS REQUIRED
(11)	1	SPOOL, MINIMUM LENGTH 2'-0", ONE END OF SPOOL TO BE INSTALLED WITH A UNI-FLANGE W/ RESTRAINT LUGS.
(12)	1	2" AMR PORT
(13)	AS REQ'D	5/8" MINUS CRUSHED ROCK FOUNDATION WITH COMPACTED DEPTH OF 12" MINIMUM

STANDARD FABRICATION & FINISHING SPECIFICATION

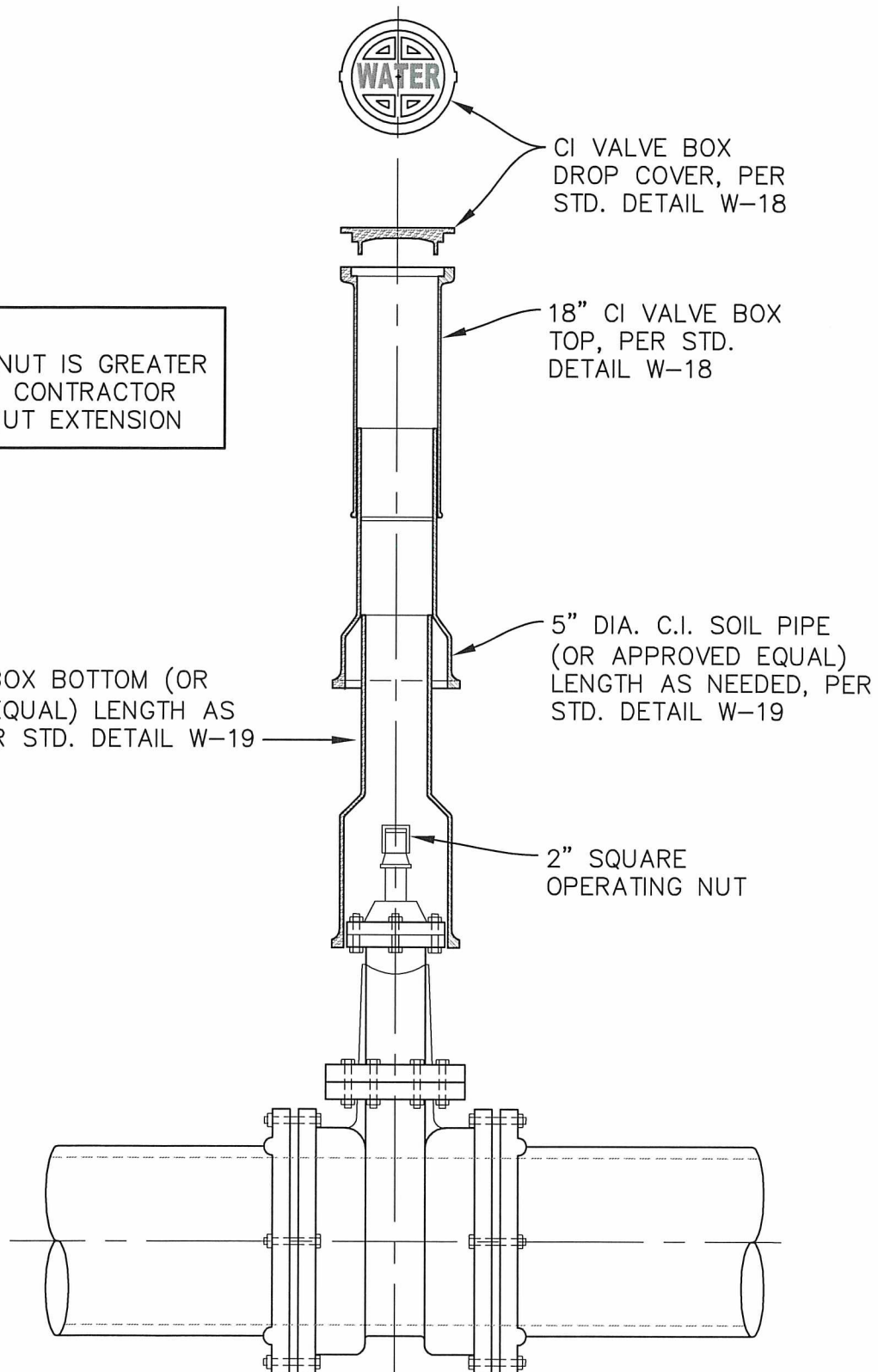
- ALL STEEL PIPE SHALL BE SANDBLASTED, EPOXY LINED AND COATED TO AWWA C-120 AND NSF-61 SPECIFICATIONS. FINISH COATING SHALL BE BLUE ENAMEL.
- GATE VALVE ON THE BYPASS SHALL BE NORMALLY CLOSED AND LOCKED WITH THE GATE VALVE ON THE MAIN LINE AS SHOWN AND KEYS GIVEN TO THE CITY.
- DUCTILE IRON PIPE SHALL BE ACCORDING TO 9-30.1(1) OF THE STANDARD SPECIFICATIONS.

APPROVED BY CITY ENGINEER:

DATE:
01/05/20213" OR LARGER WATER
METER INSTALLATION

Plotted by: Craig Dobyns on 7/13/2016 File location: M:\Construction Standard Details\Approved Drawing Files (dwg)\Water\STDETL-W-17.1

NOTE:
IF DEPTH OF NUT IS GREATER
THAN 7 FEET, CONTRACTOR
TO PROVIDE NUT EXTENSION



APPROVED BY CITY ENGINEER:

DATE:

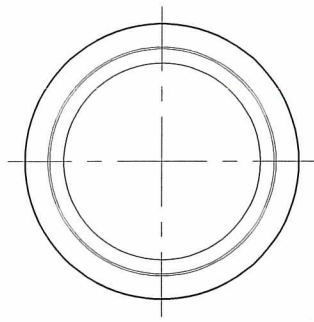
8/5/2016



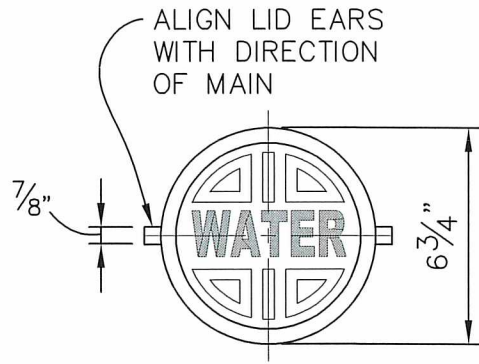
VALVE WRENCH
EXTENSION BOX

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

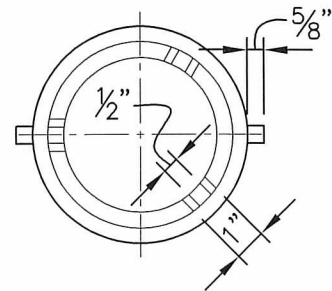
STANDARD DETAIL: W-17.1



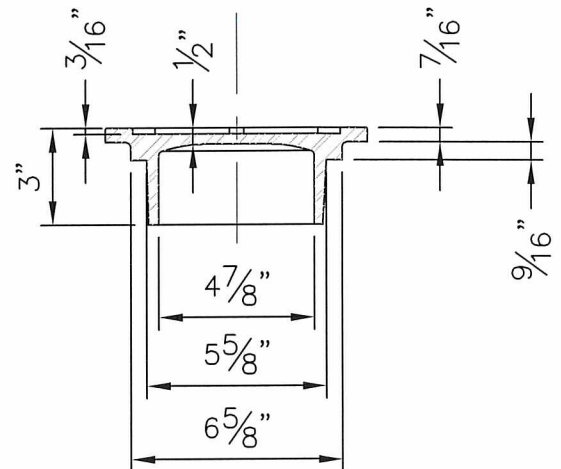
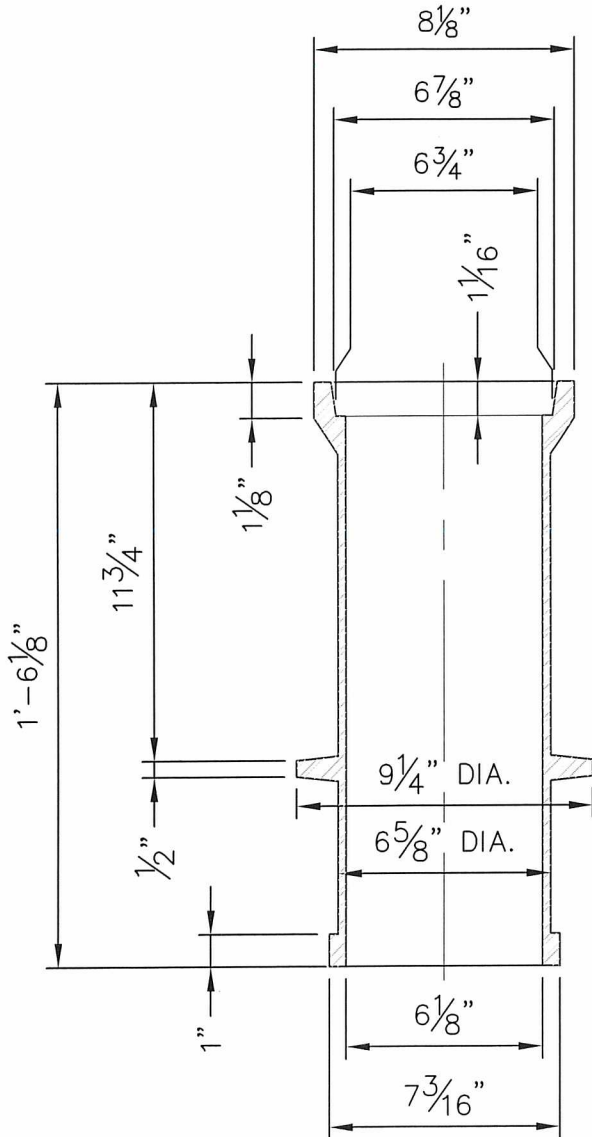
TOP VIEW



TOP VIEW



BOTTOM VIEW



VALVE BOX
DROP COVER
NOT TO SCALE

18" CAST IRON VALVE
BOX TOP & COVER
NOT TO SCALE

APPROVED BY CITY ENGINEER:

DATE:

Charles Smith 12/26/13

CITY OF
AUBURN
WASHINGTON

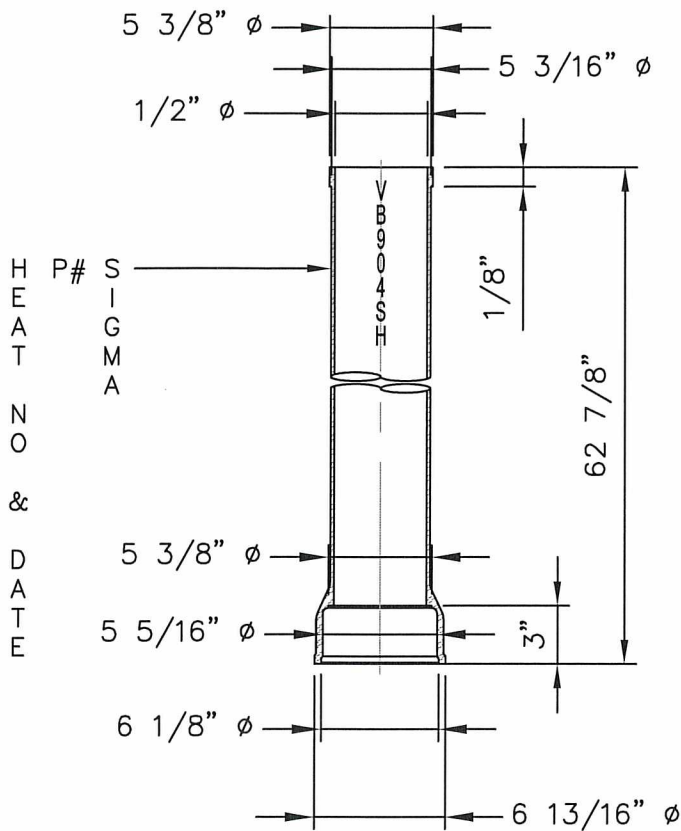
C.I. VALVE BOX TOP &
VALVE BOX COVER

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: W-18.3

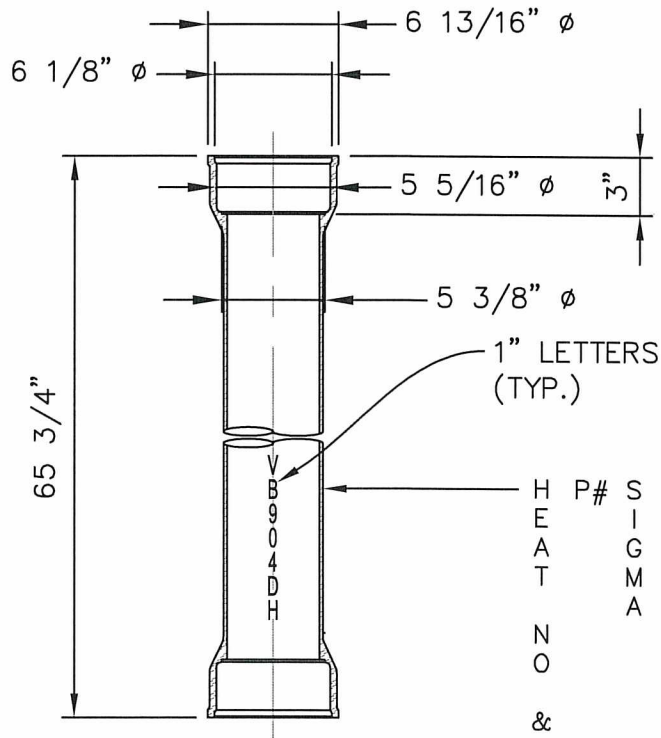
FILED OF, WITH, DRAWING ON 12/26/2013 THE STANDARD, IN, DISTRIBUTION, JOURNAL, REMAIN, VISIBLE, TURNING, FROM, UNDER, VISIBLE, 12/26/2013

Plotted by: Craig Dobyns on 7/13/2016 File location: M:\Construction Standard Details\Approved Drawing Files (dwg)\Water\STDDET-W-19.1



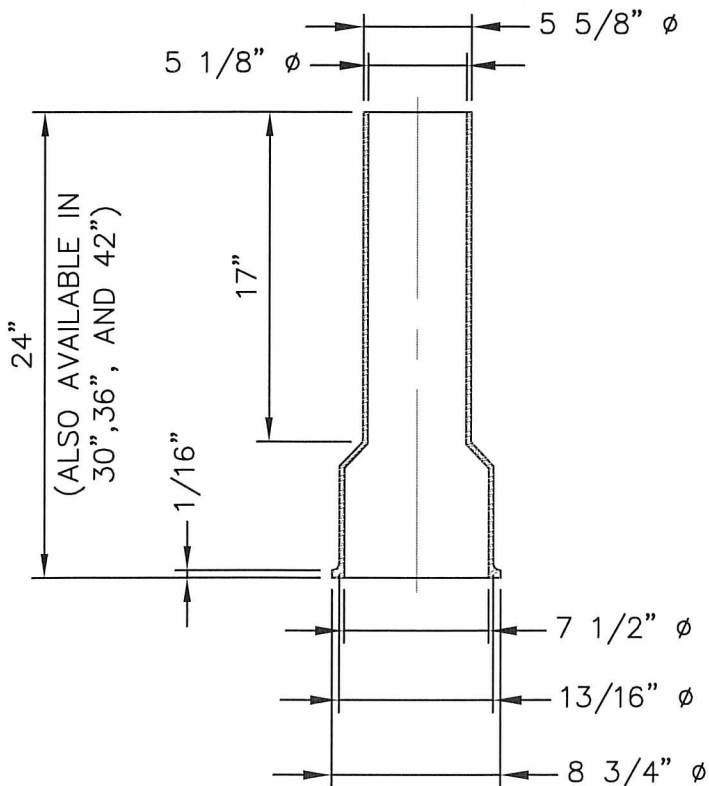
**SINGLE HUB 5" C.I. SOIL PIPE
VALVE BOX EXTENSION**

NOT TO SCALE



**DOUBLE HUB 5" C.I. SOIL
PIPE VALVE BOX EXTENSION**

NOT TO SCALE



C.I. VALVE BOX BOTTOM

NOT TO SCALE

APPROVED BY CITY ENGINEER:

DATE:

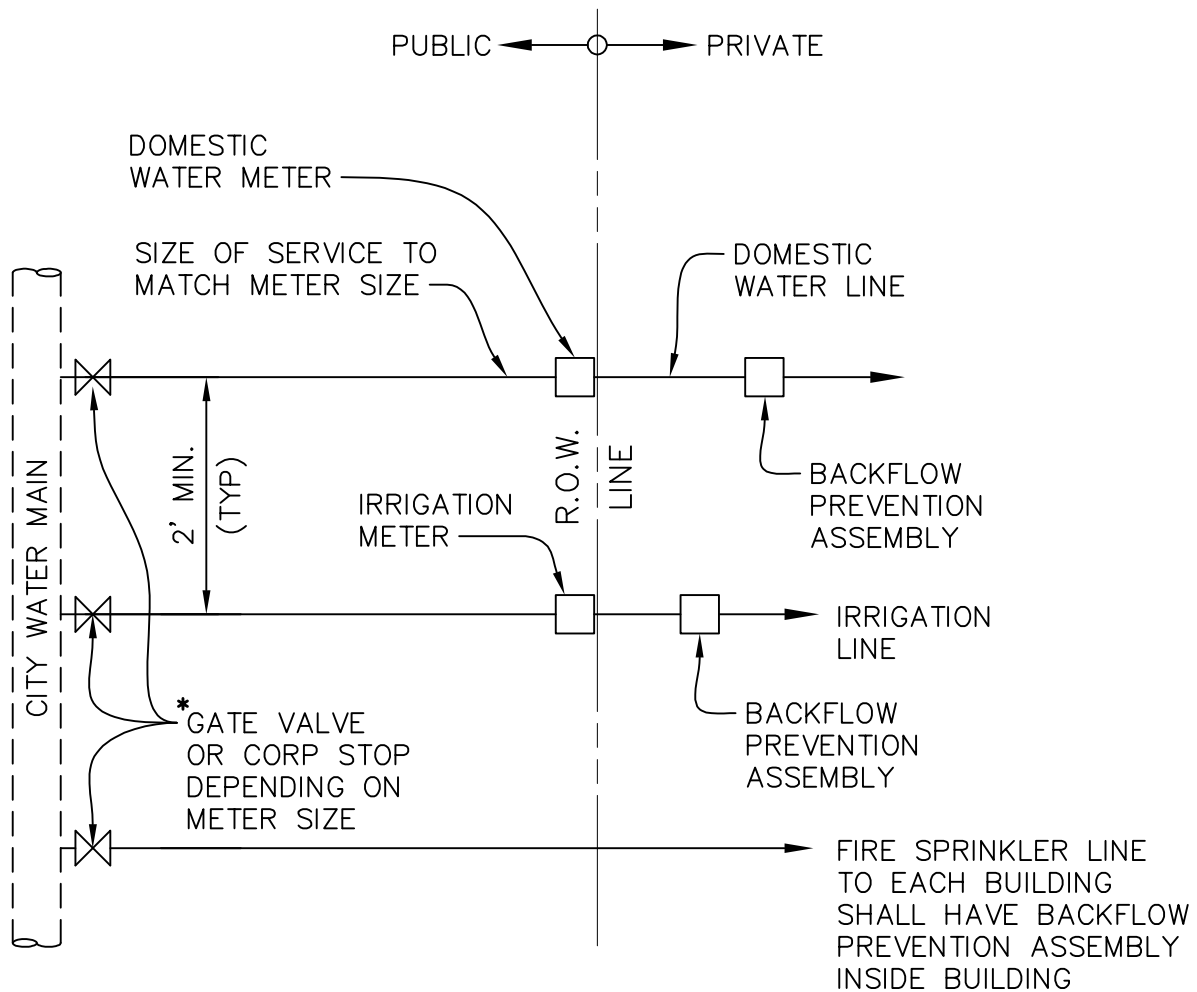
8/5/2016



5" C.I. SOIL PIPE VALVE BOX EXTENSION
& C.I. VALVE BOX BOTTOM

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: W-19.1



NOTES:

1. CONNECTION TO CITY WATER MAIN PER CITY OF AUBURN REQUIREMENTS.
2. BACKFLOW ASSEMBLY IS REQUIRED ON FIRE SPRINKLER, DOMESTIC, & IRRIGATION LINES. TYPE OF ASSEMBLY SHALL BE PER DESIGN STANDARDS.
3. PLANS FOR SEPARATE FIRE SPRINKLER LINE MUST BE SUBMITTED & APPROVED BY THE FIRE MARSHAL PRIOR TO INSTALLATION, AND SHALL BE DESIGNED BY A FIRE PROTECTION ENGINEER.

* FOR METERS 2" OR LESS USE CORP STOP & FOR METERS LARGER THAN 2" USE GATE VALVE WITH 2" STANDARD OPERATING NUT & COA VALVE BOX TO SURFACE.

APPROVED BY CITY ENGINEER:

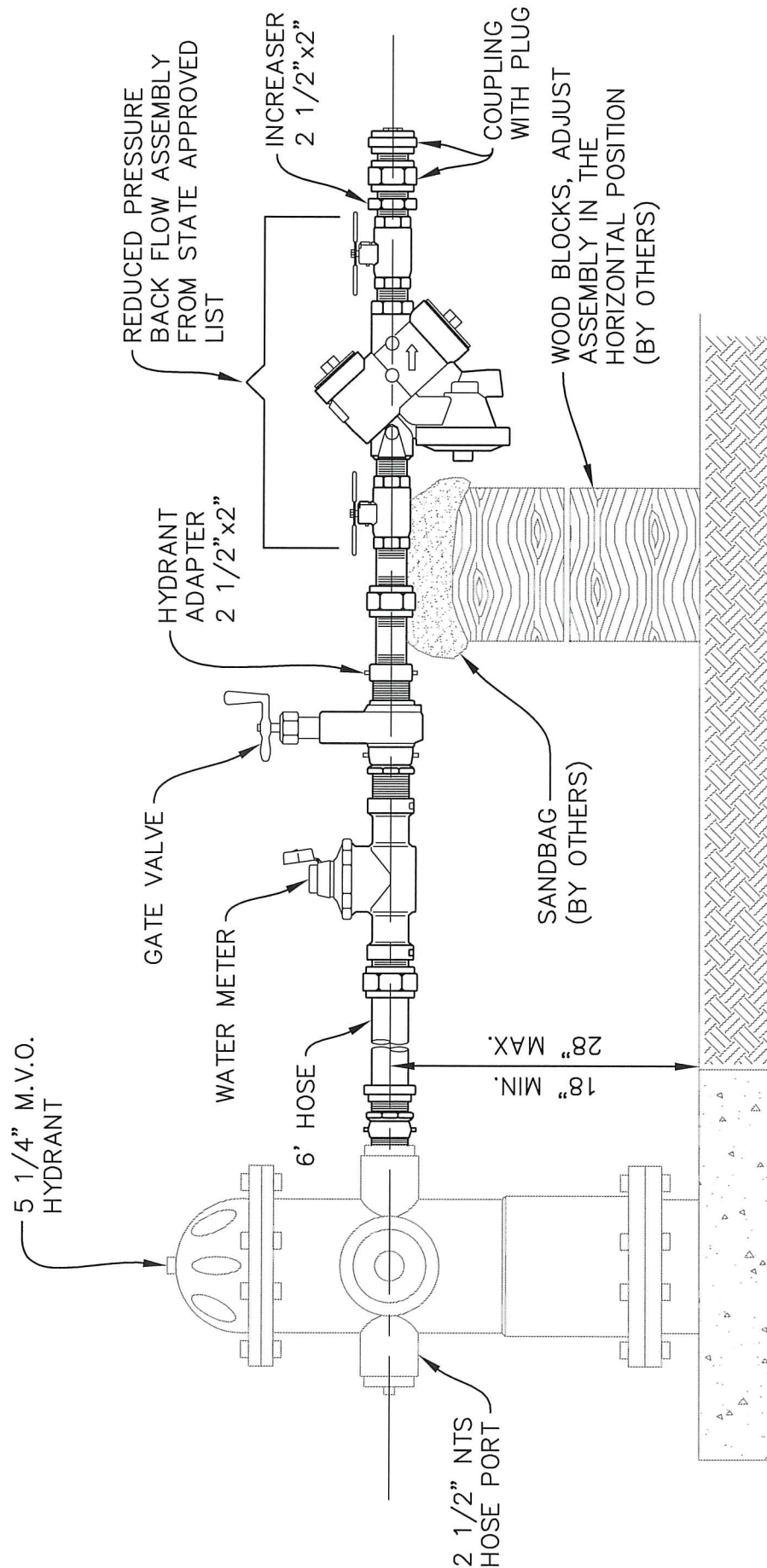
DATE:
01/05/2021



NON-SINGLE FAMILY
SERVICE LINES

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: W-20.3



APPROVED BY CITY ENGINEER:

DATE:

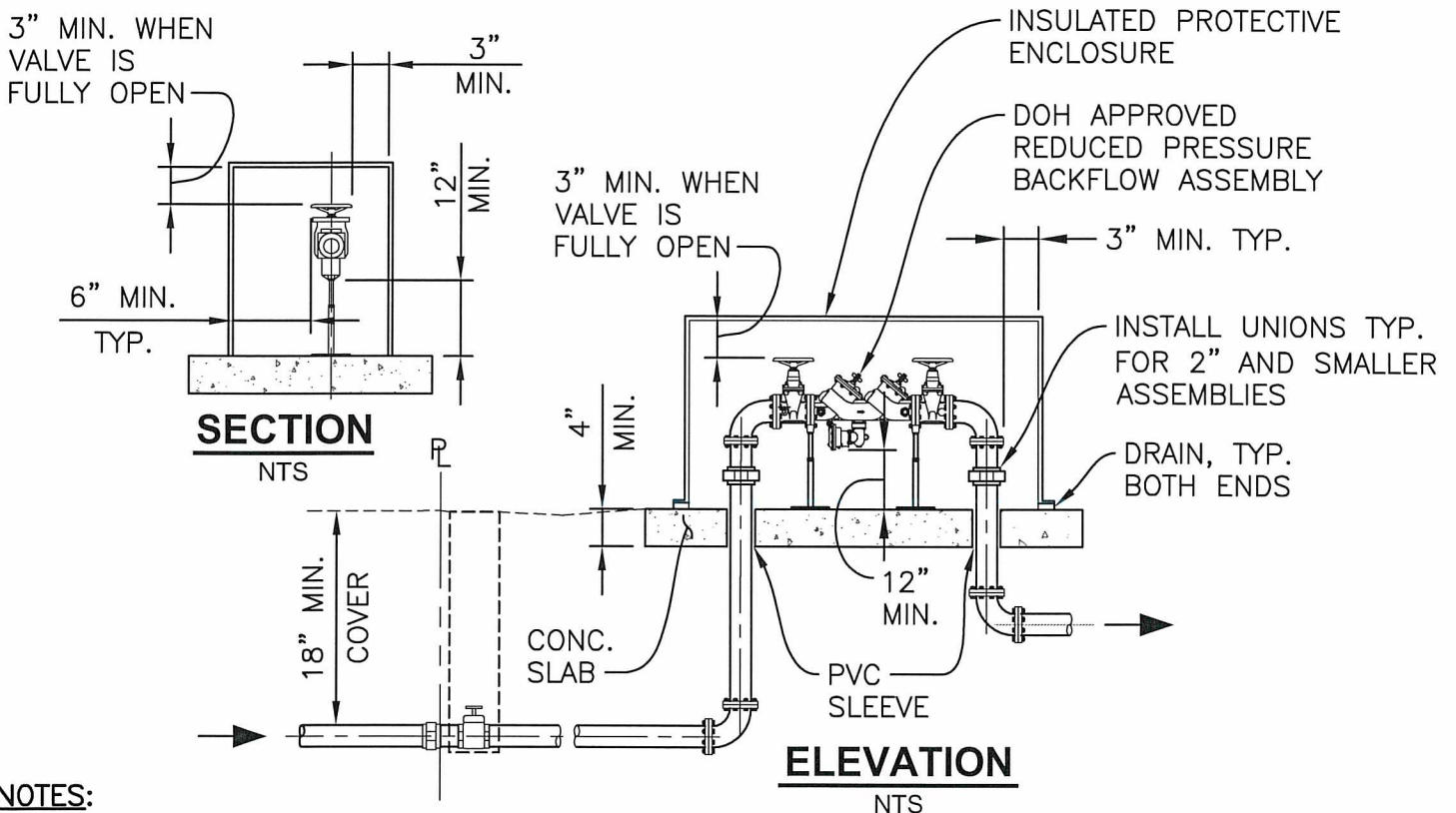
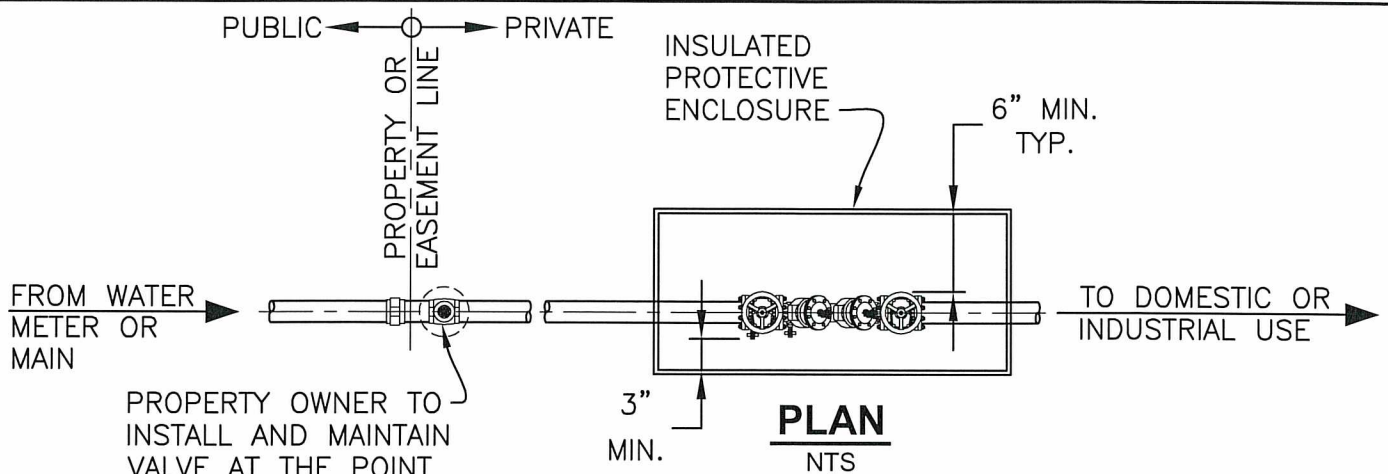
8/5/2016

CITY OF
AUBURN
WASHINGTON

TEMP. COMBINATION HYDRANT METER/
REDUCED PRESSURE BACKFLOW ASSY.

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: W-21.1



NOTES:

1. INSULATED PROTECTIVE ENCLOSURE MUST COMPLY WITH THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) 1060 OUTDOOR ENCLOSURES FOR BACKFLOW PREVENTION ASSEMBLIES. IT SHALL BE LOCKABLE WITH A KEY LOCK OR PADLOCK AND SHALL ALLOW FOR MINIMUM CLEARANCES AND PROVIDE ADEQUATE DRAINAGE.
2. RPBA SHALL BE INSTALLED ADJACENT TO THE METER AND HAVE NO BRANCH CONNECTION BETWEEN THE METER AND THE BACKFLOW ASSEMBLY. INSTALL RPBA HORIZONTALLY.
3. BACKFLOW ASSEMBLY MUST BE APPROVED FOR USE IN WASHINGTON STATE BY THE DEPARTMENT OF HEALTH (DOH). IT MUST BE TESTED BY A STATE CERTIFIED "BAT" AT THE TIME OF INSTALLATION, ANNUALLY, AFTER THE ASSEMBLY IS REPAIRED, MOVED OR AFTER AN INCIDENT AT OWNER'S EXPENSE.
4. BACKFLOW ASSEMBLY SHALL BE PURCHASED AND INSTALLED AS A UNIT, AS SHIPPED BY THE MANUFACTURER, WITH NO MODIFICATIONS TO ANY PART OF THE ASSEMBLY.
5. A MINIMUM OF TWO SUPPORTS MUST FIRMLY ANCHOR THE ASSEMBLY.

APPROVED BY CITY ENGINEER:

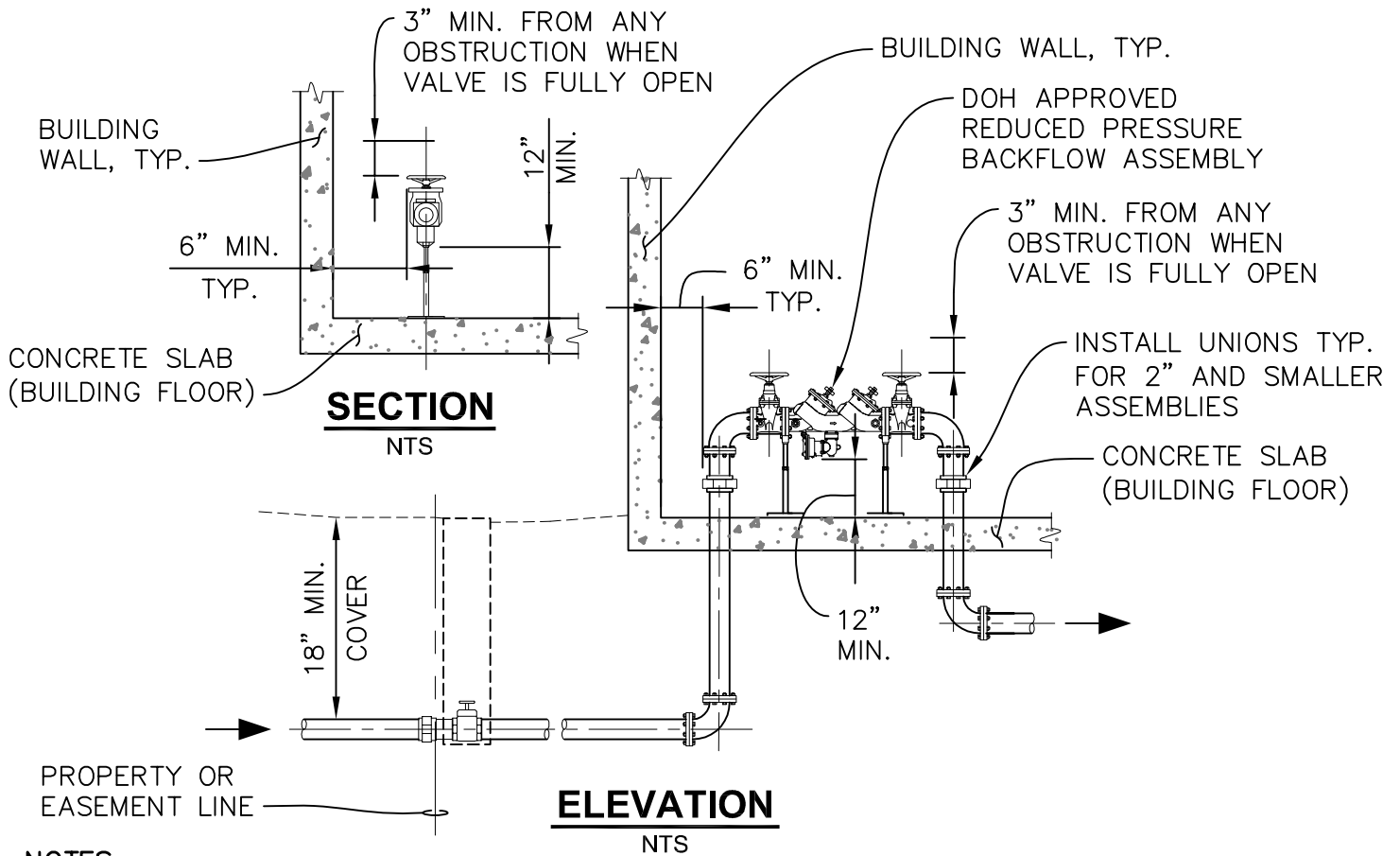
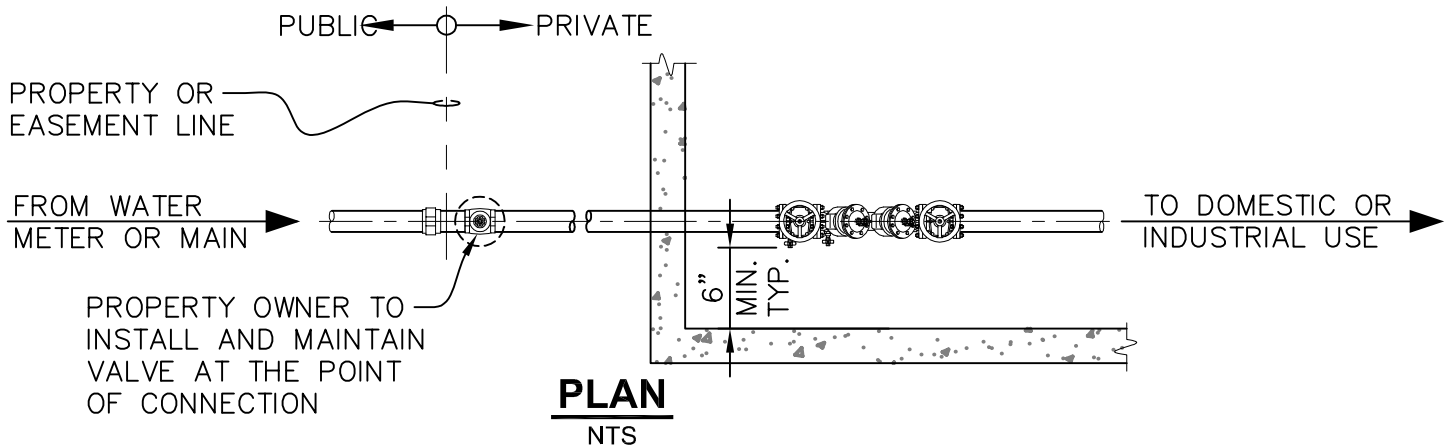
DATE:

PUBLIC WORKS DEPARTMENT

CITY OF
AUBURN
WASHINGTON

REDUCED PRESSURE BACKFLOW ASSY.
(OUTSIDE INSTALLATION)

STANDARD DETAIL: W-22.2



NOTES:

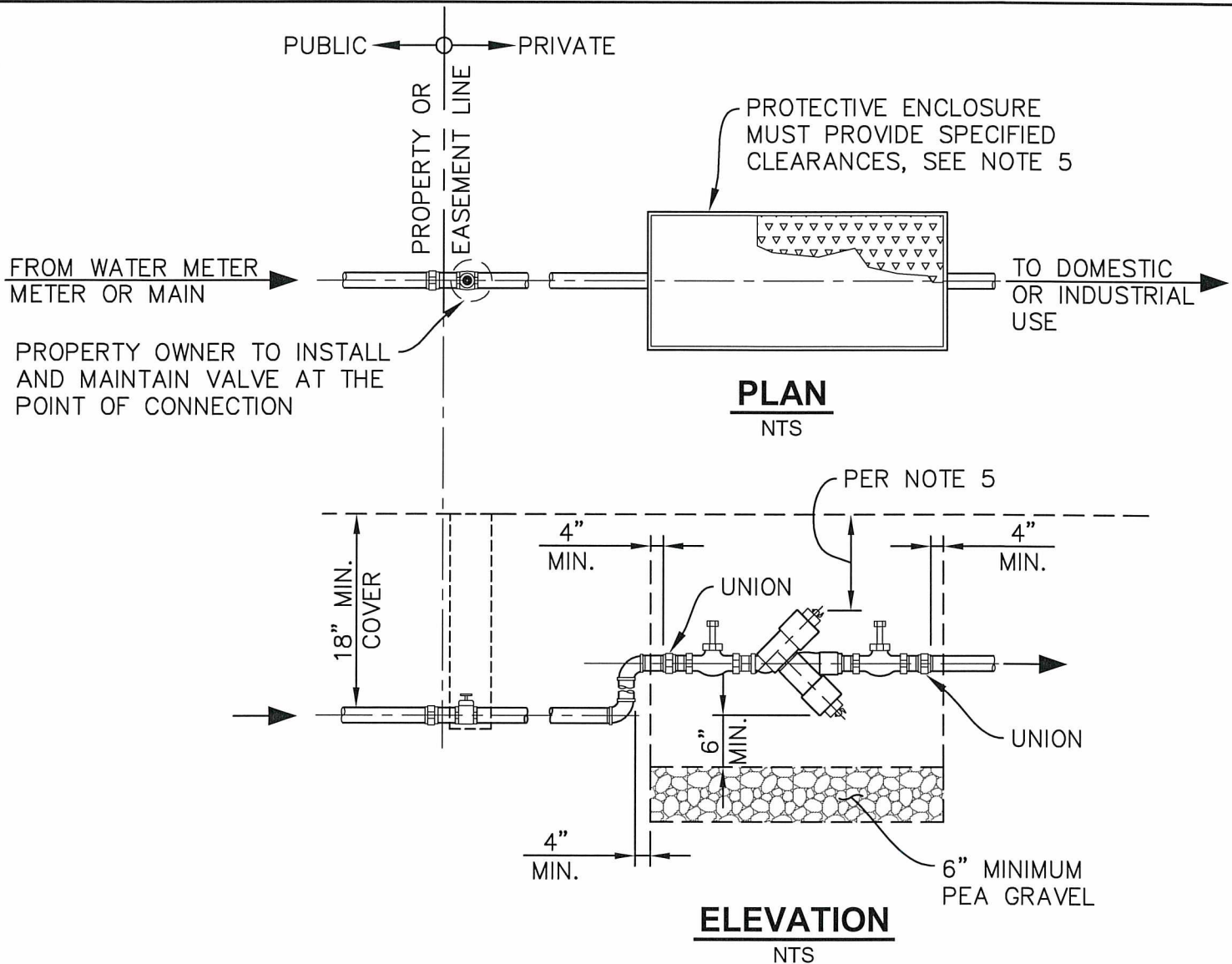
1. RPBA INSTALLED INSIDE BUILDING SHALL HAVE NO BRANCH CONNECTIONS BETWEEN THE METER AND THE BACKFLOW ASSEMBLY. INSTALL RPBA HORIZONTALLY.
2. BACKFLOW ASSEMBLY MUST BE APPROVED FOR USE IN WASHINGTON STATE BY THE DEPARTMENT OF HEALTH (DOH). IT MUST BE TESTED BY A STATE CERTIFIED "BAT" AT THE TIME OF INSTALLATION, ANNUALLY, AFTER THE ASSEMBLY IS REPAIRED, MOVED OR AFTER AN INCIDENT AT OWNER'S EXPENSE.
3. BACKFLOW ASSEMBLY SHALL BE PURCHASED AND INSTALLED AS A UNIT, AS SHIPPED BY THE MANUFACTURER, WITH NO MODIFICATIONS TO ANY PART OF THE ASSEMBLY.
4. A MINIMUM OF TWO SUPPORTS MUST FIRMLY ANCHOR THE ASSEMBLY.
5. ADEQUATE DRAINAGE MUST BE PROVIDED.

APPROVED BY CITY ENGINEER:

DATE:
01/05/2021



REDUCED PRESSURE BACKFLOW ASSY.
(INSIDE INSTALLATION)

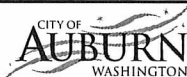


NOTES:

1. BACKFLOW ASSEMBLY MUST HAVE ADEQUATE SPACE CONSIDERATIONS FOR PROPER TESTING AND MAINTENANCE. A MINIMUM OF 12" CLEARANCE FROM ANY OBSTRUCTIONS ON THE TEST SIDE. A MINIMUM OF 6" CLEARANCE BELOW ASSEMBLY AND A MINIMUM OF 6" OF PEA GRAVEL IN THE BOTTOM OF THE BOX. THE MINIMUM CLEARANCE FROM THE TOP OF THE PEA GRAVEL TO THE BOTTOM OF THE ASSEMBLY IS 6".
2. DCVA MUST BE INSTALLED WITH TEST COCKS FACING UP. TEST COCKS MUST BE PLUGGED WITH BRASS OR PLASTIC PLUGS. INSTALL DCVA HORIZONTALLY.
3. BACKFLOW ASSEMBLY MUST BE APPROVED FOR USE IN WASHINGTON STATE BY THE DEPARTMENT OF HEALTH (DOH). IT MUST BE TESTED BY A STATE CERTIFIED "BAT" AT THE TIME OF INSTALLATION, ANNUALLY, AFTER THE ASSEMBLY IS REPAIRED, MOVED OR AFTER AN INCIDENT AT OWNER'S EXPENSE.
4. BACKFLOW ASSEMBLY SHALL BE PURCHASED AND INSTALLED AS A UNIT, AS SHIPPED BY THE MANUFACTURER, WITH NO MODIFICATIONS TO ANY PART OF THE ASSEMBLY.
5. MINIMUM CLEARANCE AT ABOVE ASSEMBLY SHALL BE: 9" (FOR 3/4" METER), 12" (FOR 1" METER), AND 14" (FOR 1 1/2" & 2" METER).

APPROVED BY CITY ENGINEER:

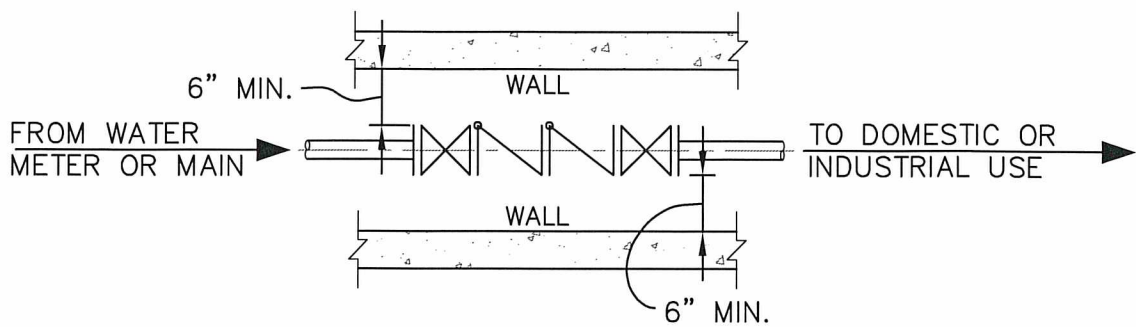
DATE:



DOUBLE CHECK VALVE ASSEMBLY
(OUTSIDE INSTALLATION)

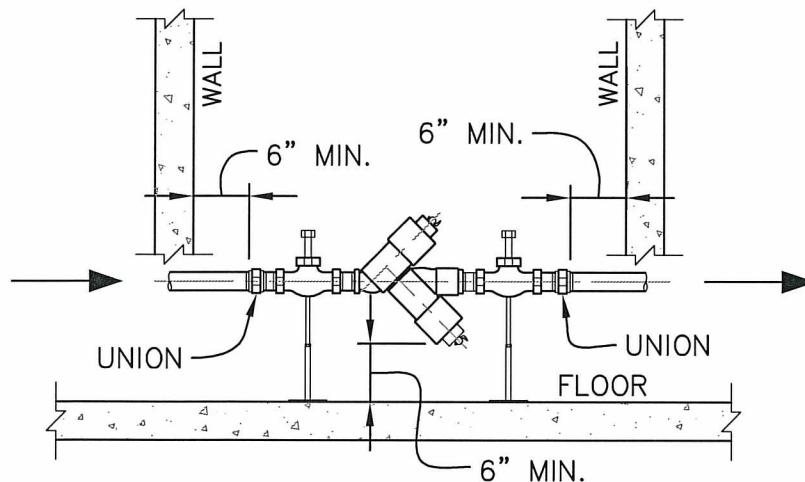
PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: W-24.2



PLAN

NTS



ELEVATION

NTS

NOTES:

1. BACKFLOW ASSEMBLY MUST HAVE ADEQUATE SPACE CONSIDERATIONS FOR PROPER TESTING AND MAINTENANCE. A MINIMUM OF 6" SIDE CLEARANCE BETWEEN DCVA AND WALL OR ANY OBSTRUCTIONS AND A MINIMUM OF 6" CLEARANCE BELOW ASSEMBLY SHALL BE PROVIDED.
2. DCVA MUST BE INSTALLED WITH TEST COCKS FACING UP. TEST COCKS MUST BE PLUGGED WITH BRASS OR PLASTIC PLUGS.
3. DCVA INSTALLED INSIDE BUILDING SHALL HAVE NO BRANCH CONNECTIONS BETWEEN THE METER AND THE BACKFLOW ASSEMBLY. INSTALL DCVA HORIZONTALLY.
4. BACKFLOW ASSEMBLY MUST BE APPROVED FOR USE IN WASHINGTON STATE BY THE DEPARTMENT OF HEALTH (DOH). IT MUST BE TESTED BY A STATE CERTIFIED "BAT" AT THE TIME OF INSTALLATION, ANNUALLY, AFTER THE ASSEMBLY IS REPAIRED, MOVED OR AFTER AN INCIDENT AT OWNER'S EXPENSE.
5. BACKFLOW ASSEMBLY SHALL BE PURCHASED AND INSTALLED AS A UNIT, AS SHIPPED BY THE MANUFACTURER, WITH NO MODIFICATIONS TO ANY PART OF THE ASSEMBLY.
6. TWO SUPPORTS, EITHER WALL OR FLOOR, ONE ON EACH SIDE OF THE ASSEMBLY, MUST FIRMLY ANCHOR THE ASSEMBLY.

APPROVED BY CITY ENGINEER:

DATE:



DOUBLE CHECK VALVE ASSEMBLY
(INSIDE INSTALLATION)

PUBLIC WORKS DEPARTMENT

STANDARD DETAIL: W-25.2